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E. H. DuVal

2002

Catalog: #010 - 019

Journal: 26 Feb – 14 June

Vegetation ID

E. H. DuVal

2002

Catalog: #010 - 019

Journal: 26 Feb – 14 June

Vegetation ID



Slope of hillside was 50



95% cover over next

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DuVal, E. H. 2002	Catalog
)	
	Isla Boca Brava Chiriqui Province, Panamé 29 June 2002
016	Chiroxiphia lanceolata nest # E-31 9 WVR #149
	coordinates 17P 0366296 UTM 0907909 I9m
	72 cm high, 90% cover over nest, large numbers of seeds below
	2 chicks fledged - GWS #521 and SYR #522
	In a sapling near CCL 2 dance perch, not near
	any gullies
017	Chiroxiphia lanceolata nest
	location and ID # not recorded
	collected for dissection/materials identification in May 2002
	failed - eggs depredated, & unknown
)	
Alcohol preserved	Isla Boca Brava, Chiriqui Province, Panamá 25 June 2002
95	Chiroxiphia lanceolata chick 7 days old Nest El-32 Banded with red plastic leg band. 9 = BPW (possisly BVW) found dead in mest tissue sample taken (heart, liver, muscle); stemach empty
95	Banded with red plastic leg bound. 7 = BPW (possibly BVW) found dead in nest
	tissue sample taken (heart, liver, muscle); stemach empty
019	Chiroxiphia lanceolata chick 8 days old nest E-32 Banded with yellow plastic leg band 9 = BPW (possibly BVW)
	Banded with yellow plastic leg band 7 = BPW (possibly BVW)
	tissue sample taken (heart, liver, muscle); stomach empty
	found dead in nest with sibling EHD 018. Abandoned?
	Nest had not been disturbed by researchers.
	GPS Goodinates 17P 0366896, UTM 0907875±10.
020	Southern California - Salvaged from houting trip of an aquaintence - exact location unknown.
<i>)!</i>	of an aquaintence! - exact location unknown.
	no data. Received as a gift - teaching collections Callipepla gambelii
	Callipepla gambelii

DoVal, Journal E.H. 2002 Panama City, Republic of Panama 26 February 2002 This is the Start of the 2002 field season - perhaps um last on Isla Boca Brava. The field crew this year is: Ryan Q. Lorenz from Saskatoon, Saskatchenan who is a distant relative of Konnad Lorenz. A good omen for any behavioral Study! He has experience with arctic geese. BRebecca Carter from Connecticut, corrently based out of California. She has extensive experience with David Winkler at Cornell University & has been working most recently in museum exhibit design. Julia Young - Lorion from Oregon, a graduate of the wildlife program at OSU. She has experience with captive-reared macaws in Costs Kica and has been most recently working as a veterinary technician. We arrived in Panama in the evening, and waited several hours for Becca's flight to arrive. We stayed at the Hotel Marparaiso, as usual, on the corner of Calle 34 E + Avenda Justo Arosemena. Yadira told me that our rancho fell down when I colled from the nirport. We'll have to see we arrive!



DuVal, E.H. Journal 2002 Panama City Panama 27 February 2002 Aceti-Oxigeno, SA 270-1977 Paitilla Apartado: 114 Zona 1 Filled nitrogen tank at Aceti- Oxigene & went to STRI to pay the bill and use the internet. We looked up supporting articles for the Side-project on nest stage failure. Metropolitan Park: We liked through Starting at a 4:00pm enjoying the place of spot-surveying Rev counts for comparison with Movember's Observations. Canyy Crane to the top of the hill we found one pair of males QRing (for > 8 min) on x off. We walked back into the forest to find them, but never bid see them - they seemed to more away as we approached. Agouti + coatis seen. Dinner at El l'apichi, on Via Argentina 28 February 2002 #15 taxi to Boca Chica + I dishit get a receipt. We saw a jagarand: sprint across the road in front of the truck just as we entered town. We took the bus brong Parama City to Horconcites then went straight to the island. The ranch I really did blow Lown. We're ALL in the mushroom, house.

Dolal, Journal E.H. I sla Boca Brava, Chiniqui, Panama 2002 Kyan, Julie, Becca, x I ate a Keisurely Lunch breakfast at the restaurant and I verbally ran through all the data collection methods we'd be using. Then we packed up and hiked down Main St. to Claus's house (it looks wonderful & is bully finished) where he + Mechtild treated us to cold water. We hited back via the beaches trail. The Morth wind was blowing very strongly & all birds were silent. After lunch, we took a siesta of then hiked the North trail to Bob's fish camp (coming along rapidly) of the far Rancho + returned part Bridge to main St. WYR (DN) + AR_ (DN) were foreg; near the bridge itself. WYR is fully DM these days! I ran through the Animal Behavior Lunda presentation to get everyone on the same page, + moved upstairs in the hut - so far it's Still standing. Today was the first day of observing mankins in action. I stayed at 5LN1

John Boca Brava, Chriqui, Paramá

for 4 hours in the morning of watched

with Becce birst, then Jolie

Things were so dead that I switched

to BRI with Ryan in the afternoon.

We find get a little more action—

a QR w/ ARA+BOW (DM.).

In the AM, others rotated through

FBE 1/2 + ACA 4; in the afternoon.

FBE 1/2 d CCLI.

3 March 2002

Becca got full bands on a GR bout today WBR & ABA at CCLI. Otherwise things are still

extremely quiet. I did an observation session
at MANI and it was nearly deserted - an
unbanded DM did show off his bare (egs to

me t was acting territorial (I whistled him in).

I guess I'll have to go mistract there.

ASP (RC) Showed up at BTR. He's a chick

from last year & is a chasir young RC;

cop half - grown-in, etc. I was feeling

energetic in the afternoon of went out with

my camera to try to take some 500mm

unanakin photos - as leek

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Isla Bocci Brava, Chinquí, Panama

4 March 2002

We went to four 'new' dance perch areas today to expand everyone's working Enouledge of the island (BTR, BIE, GUL, EDM) Everything was Still extraordinarily quiet. After lunch at the restaurant, we decided to explore rather than doing watches, as the North Wind had blown up again of was keeping the manakins Silent. We hiked down their St. to CCL5, around "Frank's New Road" to CCL 1 & 4, to SNKI, & down the gully to the beach trail. From there I let Julie, Becca, x Kyan guide us to SBEI, SLNI BTR X FRE They did wonderfully, & I have high hope, that finding these display peoches will soon be second auture. It was 85° Fig the evening - cool + breez,

5 March 2002

The North Wind was still forecions this morning, so we opted to hike through Many rave vather than doing early watches. We went down Main St to John's land, followed the fencelihe north to the ocean. One tree that forms part of the fence was scored with deep scratcher, some

Doval, E.H. Journal 2002 Isla Boca Brava, Chinqui, Pavama much fresher than the others. The bark of inner cambing layers peeled downward from the cuts Perhaps an anteater? Or a jagaradi? The cuts seemed too name for a cost's claws, though. We continued on the "Adventure (ail backtracks) to where it hits the fence line to the gully that leads to WEL; transed up to the WEL area Girding a leathern iguana under a vulture 1005+ - I couldn't separate the head, so I left it in an obvious place & will retrieve it once the vainy season has softened it up); retraced our steps to the ocean; climbed over into the MAN gully, as there was no passing through the manyrove area at high tide. flagged the MAN dance perch; & returned to BRI via the inland gullies. When! All that before 10:00. Then we split up for observation at SHE FBE 1/2, CCLI & SBEZ. I watched sut, + there is definitely an unbDM here, 5%:11. 6 March 6 Kerch 2002 LOTI I find matches at SBE3, that Y CASI: there were bounded boods at COT & CAS, happily, I they were reasonably active. Everyone did individual obsenations, then by ladira because we were late for dinner + the place was packed.



Do Val, Journal E.H. Isla Boca Brava, Chiniquí, Panama 2002 7 March 2002 This was our first official day off, & we all celebrated by sleeping late. I started work on the manakin enclosure that we'll use for the removal experiments. The electricity company has been triuming all the trees (ie cutting them down) wear the power lines, as there have been two recent power cuts due to a faller tree. I salvaged branches from the downed trees to use as supports y will stitch a wesh cube to fit over Should increase

Stability + I'll lash
the whole thin t the whole thing together with twine. It might work or it might be a repeat of the shelf-building effort in I took two short walks with my camera of new soomen lens to try to get manaking pictures, with no lock. 8 March 2002 This morning + saw a great tailed grackle (Quiscalus mexicanus) male + heard another by Enrique's house - the first time

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DuVal, Joural E.H. 8 March, continued 2002 Isla Boca Brava, Chiriqui, Panama I've heard or seen GTGR's on this part of the island. Does that mean that it's becaming more disturbed & open, & therefore better suited to them? Ryan & I Saw a smallish grey balcan, slightly larger than a merlin x with a dark morstache mark, blying over blair St. between ACAY FBE. It was a good day for non sids. We did watches around the Study site, as before, & Julie saw the males at SBE 2 dance for a female - finally! This is the first dancing for a female we've seen in 2002. I observed RYV organizational drawing BPV at FBE 2. Did we ever establish that BPY was of in previous years, or was it just a hunch? Is RYU stepping up in the ranks by force (!) or just reinforcing the way things were? There was a giant iguana (16 head to tail) in a tree over the pigs' enclosure ofter INTERESTING MANAKIN NOTE: RSP (RC/SLBF) was seen hovering before a spider web-t plucking at it, with the spider in the mobile. It wasn't clear whether he was attempting to



DuVal, Journal E.H. 2002 8 March 2007, continued Isla Boca Brava Chinqui, Panama 8 March, cont. EAT the spider or not, but he was definitely pulling at the web near to where the spider was sitting. The spider was still in the web when the wanshing flew away. 9 March 9 March 2002 We went as a group to WEL 1/2, 3, 44 this morning to get the locations down & then Ryan, Becca, & Julie votated through these perches for the morning (Ryand did WEL 3 M the afternoon). All was extremely quiet, but the afternoon was quite active all around the island. GAR(DM) was QRiz with a SOM by GULY, & my watch at FBEZ included many instances of RYV chasing BPY. Was BPY NOT alpha last year, as I had thought? Or is RYV just moving up & forcing BPY to a lower position? Is BPY just plain getting old? And if the visk of having & s it opens all kinds of skew theory possibilities I saw 4 DMs at FBE4 - just looked there in passing because two were aking. Two males flew down to the up of did a by at display while two others

Do Val E.H. Journal 2002 Isla Boca Brava, Chiriqui, Panama 918 March 2002, continued 9 March, coit sat about a foot away watching the dancers. It looked like cheerleader tryouts in progress! Swimming at SBE after work, & I heard QRing + dancing at SBE 5. 10 March 2002 We did watches at a smattering of display perches today from the "core 12" selection. While at BR12, Ryan was surprised and then chased by a large (6-footish) snake with white on its head and a dark body with a faint pattern similar to that of a for-de-lance. We can't be sure, as it was gone When Becca went to retrieve his backpack and whom I specifically searched for it in the afternoon, I found nothing Frank will not be going its Pavid tomorrow, so errando will have to wait. 11 March 11 March 2002 We continued to do watches today, and for the first time this season the forest was alive with male LTMA: dancing for family WAY & AYA were QRing of ACA 4 - it

the Secas. Julie 1 Becca were able to Squeeze into the cat, but Ryan + I perched precarional, on the tarp-covered mountain

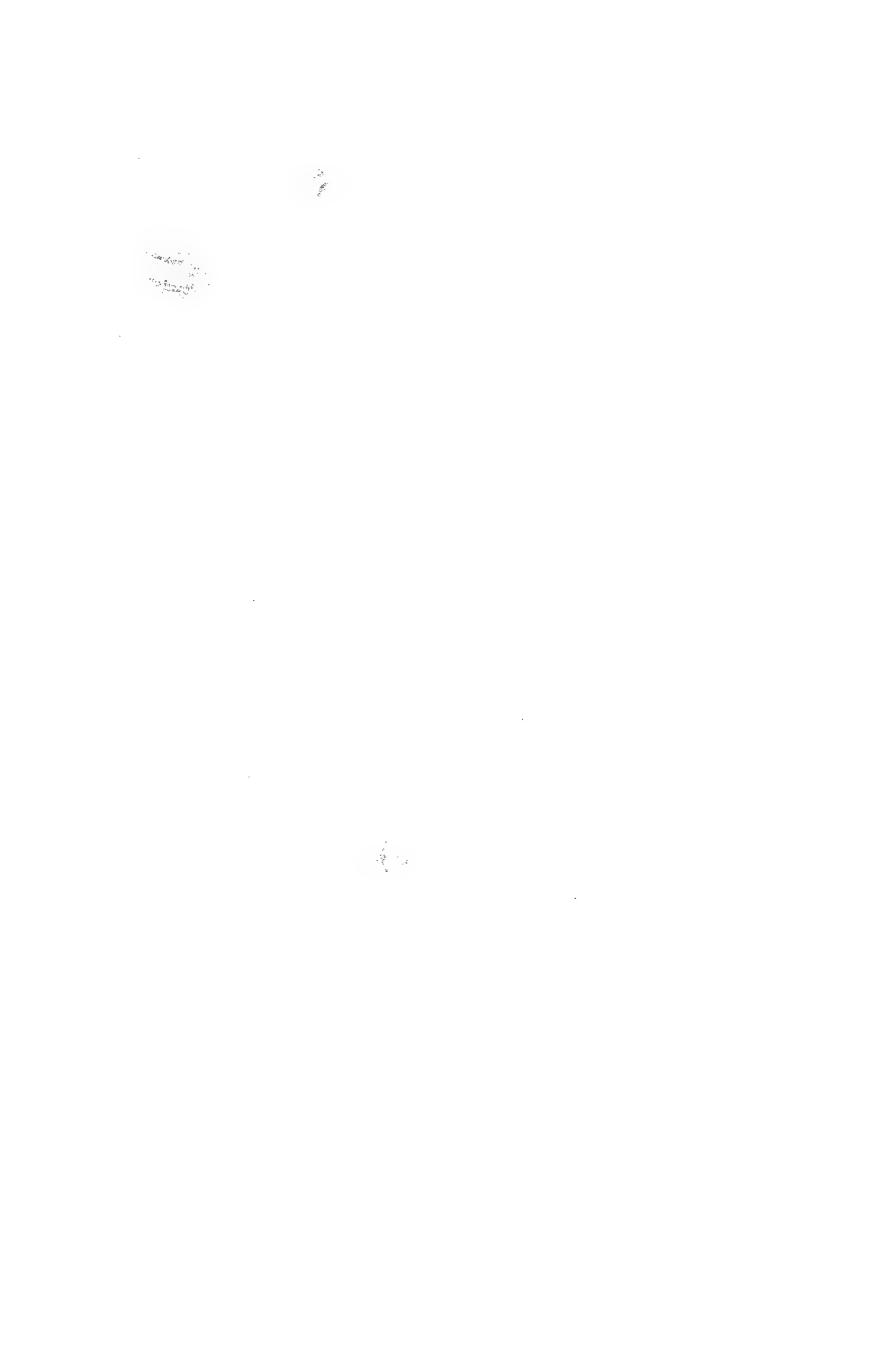
Du Val, Journal E.H. 2002 Isla Boca Brava, Chinqui, Panama of ice for the entire trip to Boca Chica. I think I surprised everyone by having us take the ride, but it turned out to be a fun adventure - and we made it home for dinner. 13 March 2002 lodary was the day of fer everyone else. I did three watches, including some good data collection at BTE1. I saw dencing for female live times today! I pushed us and we did a form - watch day; our lazy 6-hour days have been giving everyone the wong impression, I think. Tour watches were everyone out, but overall went 15 March 2002 We set hets at Snakefield display area after lunch, and jutie and I will run them tomorrow. The unbanded DM (air notting target) danced for a female as we were setting got bands. Vafarforately, they came up with

DoVal, Journal E.H. 2002 Isla Boca Brava, Chinqui, Panama 15 March cont. a different partial combination on the und Dh's partner. It's an active site, though... 16 March 2002 Julie and I caught the unb DM at SNK and banded him BSY for easy recognition corrently the only DM with an S in the middle. Shortly before he caught him, we Saw unb DM + _ A (DM) & for BOB. It's always good to see manakin # 001. Katie Saw BOB (or GOB?) copulate at this display perch last year. We caught the unboth almost immediately sidering how many hours I wasted senting for him last year.

Do Val. Journal E, H. Isla Boca Brava, Chinqui, Panamá 2002 17 March 2002 Ryan was chased by another large 8" diameter (?)) "5: Vador" snalse tuday, this time at GUL 2. Becca & I were entering data at BE SBE (on the beach) When he came dragging out of the forest. This clearly exceeds his expectations from the "occasional snakes" I mentioned in my field assistant and - wine too! Becca + I were nothing at SNK 14 the morning and caught one unb 6. In the afternoon, we recovered Kyan's hot & the tripod (thrown at the snake) from GULZ, then set nots at WELY for tomorrow. I managed to whack unself in the right eye with a large spiny vine and spent a good two hours with my eye vet-wrapped shot (courtesy of Becca). Vision in that eye was very blong for the rest of the day.

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Do Val, E.H. Isla Boca Brava, Chinqui, Panama 2002 18 March 2002 Notted half-heartedly at WELY; I'm not Sure the unb DM still controls this area through Ryan saw one unb DM at WEL 3 this week. YAR + Y_A (DMs) were QRing at WEL 4 as I set the vets this morning. In the afternoon, I did a watch at BR12 while Becca & Ryan entered obseration data. 3 days in a row of data entry is just too much! The database setup needs to be refined still, but no wratter what it seems like data entry just takes too long. Only entering time slots + birds seen took me 20 minutes for one busy watch. Luckily, we can consult with John about this when he & Fileen arrive. No word from them get - I guess I'll just reserve a cabin & see what happens. 19. March 2002 loday was the day off and my plans to go to Linarte were thwarted by Claus & Mechtildt who took us to the beach" - the for beach that connects Isla Boca Brown to Isla Palente, and then the small spit of Boca



Du Val, Journal E.H. 19 March 2003, continued 2002 Isla Boca Brava, Isla Scrino, and Isla Palenke, Chiriqui, Panama

Both areas had manalsing present. At the beach near Palenhe, I heard the duct song three times of tromped back into the mangarres to see & unbanded red cap. I had heard dancing in the same area of Can see why manshin may end up 14 many me habitat - the roots form a mare of perfect dance perches. And get the 5thdy site CTMA'S don't seem to spend und time in the mangroves. On Isla Saine, I whistled an Too swampy? immitation of the downwhistle x pip calls, & immediately had an unb DNI coming to investigate. He did a pip flight throughout the small area of manakin - appropriate habitat: a small clump of spiny palms + suplings just human - dug well at the worth (inland)
end of its. He was also obsserved to give solo QR bouts that lasted for more than \$3 minutes. Is it possible that there is only one CFMA on Isla Samo? The rest of the island is burned yearly by an inknown person, and someone had been clearing

DoVal, Soumal E.H. 2002 Islas Boca Brava, Saino, and Palenke, Chinqui, Panamá 19 March 2002, continued March cont. sections of it by machete. The majority of the island is sparse median-sized trees (large enough to withstand regular fine) and grassland. Valess there is another gully-like area on the other side of the island, I would say that The DM was in the only app habitat suited to LTMAS. Other birds seen on that small area of the island included: Variable seedeater 8 + 9 Elania sp. Red-lagged honey creeper 3 4 4 wood pecker (same as an IBB) Parama flycatcher.? Dk through eye, tail notched. 20 March 2002 We did a regular 3-watch day today, 20 March with me going to GUL ? where the most recent snake was seen. Frank looked up the "silvador" saake in his suake book and says it looks like the snake - eating Colubrid Clelia clelia. They are red with a yellow ring around the neck when young, which would account for the fact that No one can remember seeing a small

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Do Val, E.H. Isla Boca Brava, Chinqui, Panama 20 March 2002, continued 2002 20 March, can't Silvador. The booke (Anyphibians & Reptiles of Middle America, in German) says that a 2 m Clelia was found with a 1.8 m Bothrops inside its Stamph. Of course, the both also says that Clelia are non-agreement Beca found two nests today that are either old or under construction. I'm not at all some that they're LTMA nests they have an over-abundance of black phizomes + seem a bit sloppier than usual, but that many just be from degradation. Julie found an autshrike next along the LOTES trail that is just 3-5m from the one found by a tourist last year. Are antshrikes nest site Gaithful? Durig my GUL 2 watch, a DM chased a vireo out of the dp area, though there was no 4 present. Vireos seem to be nest-prospecting right now, + it would be very inconvenient to have a hyper-knitist viceo couple in the middle of one's display How common is manation inter-species territoriality? I did a watch at WELZ + there is definitely an und DM in regular attendance. We'll have to vet there soon.

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DoVal, E.H.

Journal

Isla Boca Brava, Chinqui, Panama

21 March 2002

This was a day of ups and downs. The down part was really just my stypidity - I managed to step squarely in a large pile of human diamhea while doing a watch at BRI. But I also recorded the first copulation of the year (RGW(DM) copulated with AYR(G) at BTEI after an entirely sole display) and bound the start of the first uest along the path to the beach below our rancho. Amelia is leaving the island for her birthday, so we danced and had an early birthday celebration in the evening.

23 March 2002

Eileen + John may not be coming tomorrow - they were supposed to call, but I didn't hear from them via phone or email. We're just carrying on as usual, + I'll be delighted if they come.

23 March 2002

Eileen and John are here! I went to Isla Linarte in the morning on an expedition to see whether any of our banded birds have flown across the water. If hot, I'd like to try

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E.H. 2005

John Boca Brava, Chinqui, Panama

Much, ant translocating our removed alpha males to Linarte

rather than keeping them in captivity. I

took the GPS unit and mapped my route

from the northern tip of the island to the

other end (nearly - the rising tide cut me

off from the last low beach). Along the

way I recorded the position of singing pairs

I encountered and checked all the birds

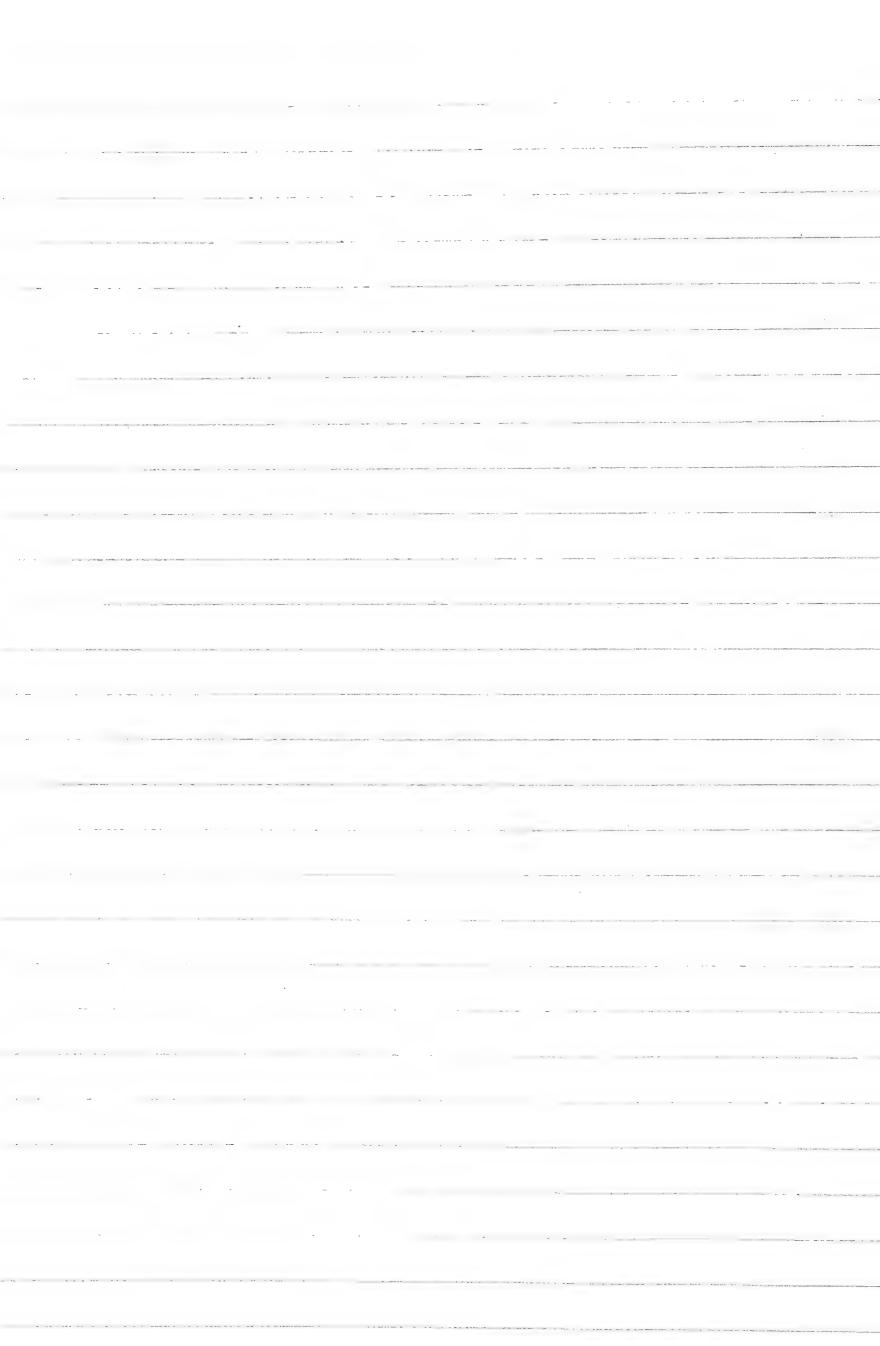
that I saw for bands. I found one

nest under construction in a dry streamfed
by the main western beach. I only

Saw one banded DM - 040, who was banded very near to where I saw him in 2000. He was behaving in a very alpha-like manner. I think it would be feasible to release

birds from Boca Brava here: if there is interchange,

it is at least rare



E.H. 2002

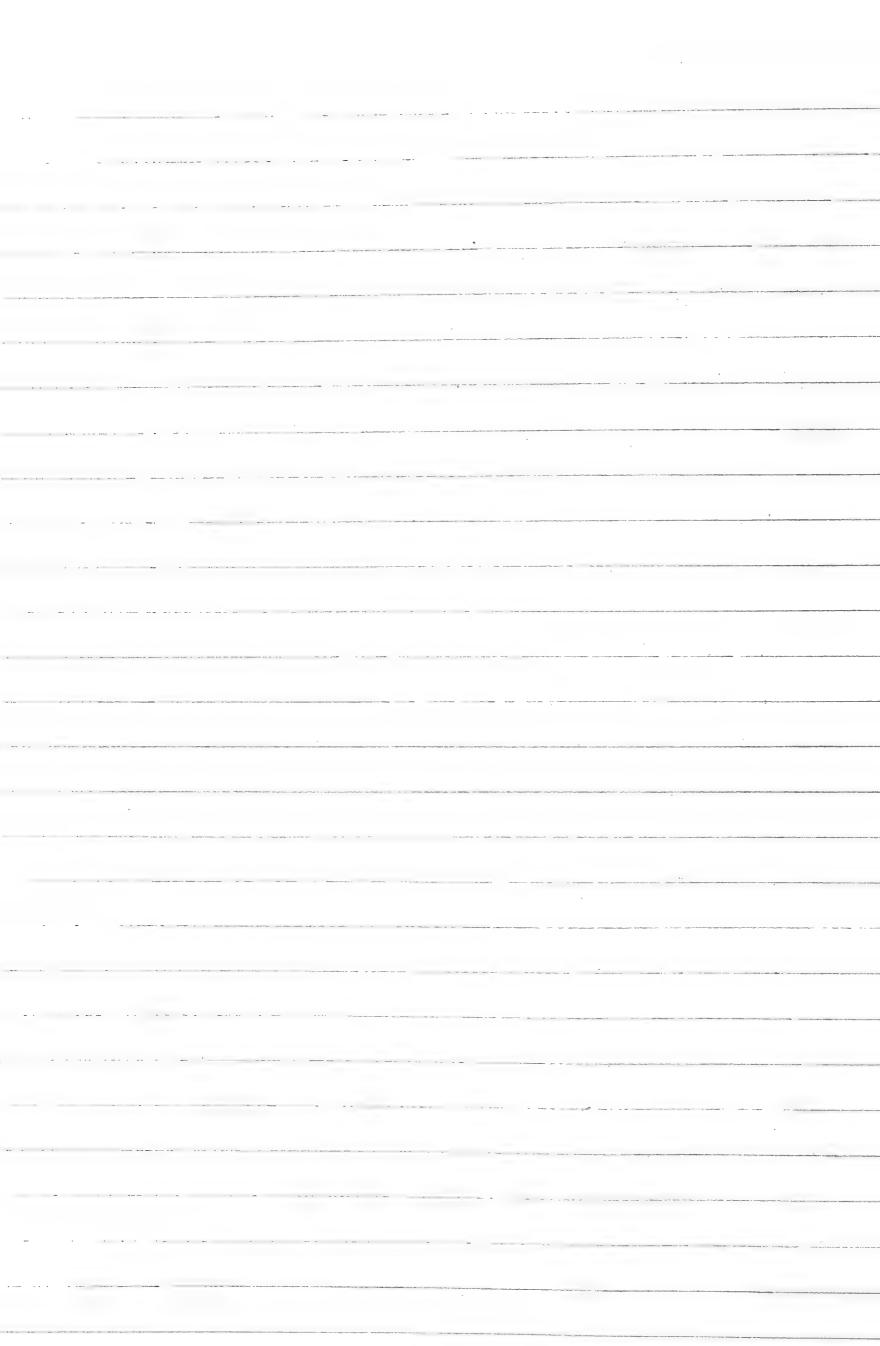
Isla Boca Brava, Chinqui, Panama

I walked the length of the study site with Eileen and John, just because I want to show them everything. We saw the Mantled Howler Monkeys by second beach - a daily occurrance for us, but it was their first look at a wild primate. Frank was drunk from his weekly payday drinks with his workers, and was behaving poorly. At least it was a clear demonstration for my advisor of why I don't want to work here forever.

24 March 2002

I took Eileen and John to the BTR display area to explain our observation protocols, and the birds cooperated by performing some beautiful displays in the absence of females. Then we went to BTE where RGW did a solo display for a female. John was making enthusiastic suggestions about skipping lunch to do more watches, much to the horror of my regular assistants. Eileen and I talked about the Ph.D. into the evening and she encouraged me to move on to data analysis.

25 March 2002 John & Eileen, observing no a team,



Journal

E.H. 2002

John Boca Brava, Chinqui, Pavaria

March cont recorded a copulation by WBR(OM) at CCLI.

I saw ARA(OM) SF-1 for a female at

BRI (with a short involvement by the 2nd male).

It's a good time to have my advisor visit—

the birds are very active. John and I

Stayed up reorganizing the database until 10pm.

I'd fargotten that we were having a microsoft

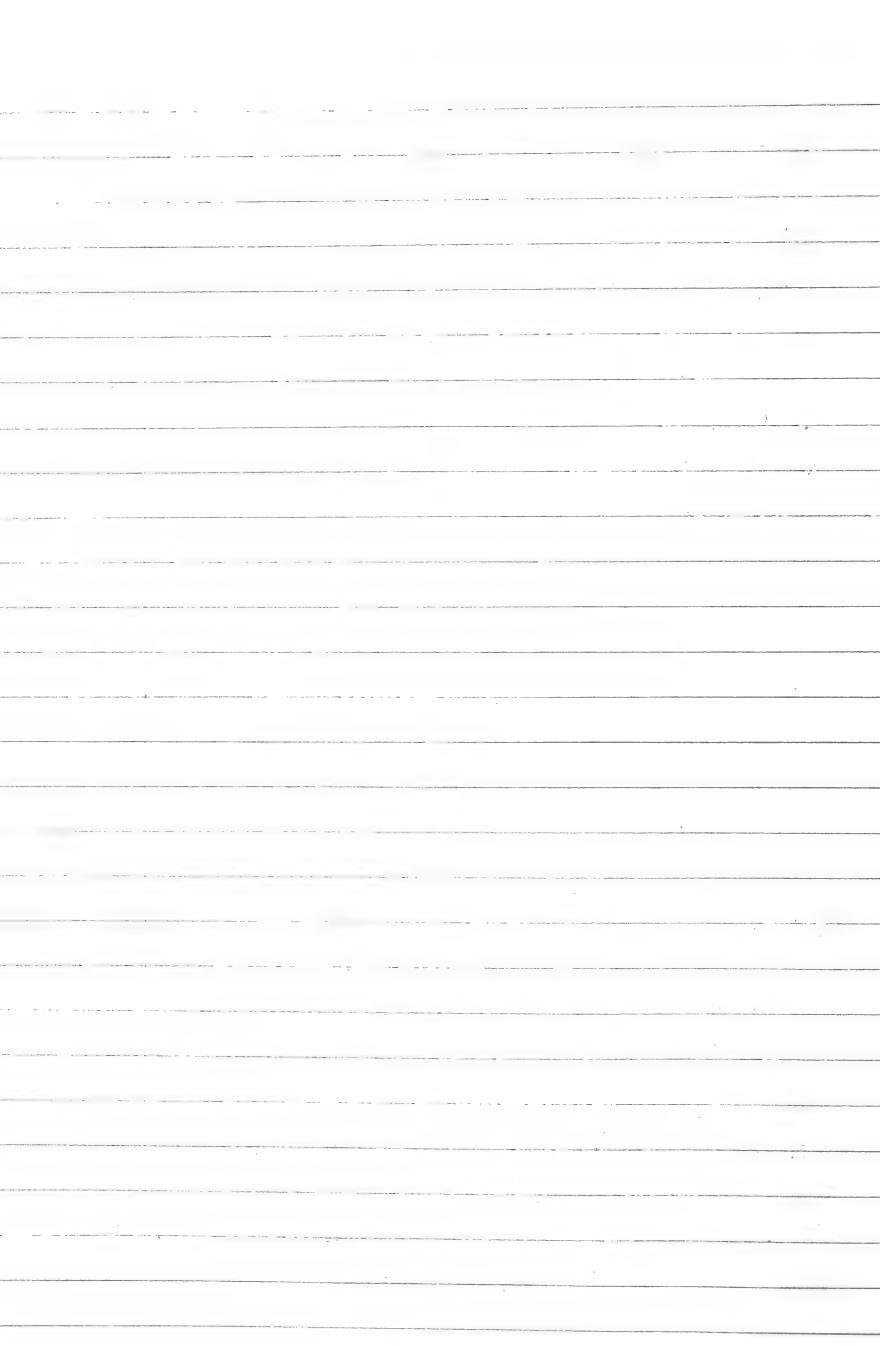
Access wizard come to the study site! It's exactly what I needed.

26 March 2002

Today I notted for an unbanded DM at WEL3 with Eileen & John John and I again stayed up late fixing the database. We're adding several macros that will make the data entry go more snoothly.

27 March 2002

Ryan, Julie, & Becca went to David without me today of did wonderfully. John, Eileen, & I Netted for the WEL3 unbDM in the morning, then worked on the computer during the afternoon (while we were more alert). In the late afternoon, we hiked through Mangrove Via the main "Sendero de los Manglareo" gully. Eileen said she could undestand assistants I dislike of the



Journal

2002

DUVAN,

Isla Boca Brava, Chiniqui, Panama'

place as we followed the coastal trail out.

Then we blew off all stodgily-enforced dinner rules and went swimming at second beach as the sun was setting.

It was beautiful, and well worth the risk of being yelled at - we were note than half an hour late to dinner.

28 March 2002

Two capilations were recorded today one by Becca, and one by John & Eilen
laying, and three eggs appeared in Becca's
hests. I found a woody possum (not sure
of the species) and called Eileen over from
a watch to see it. We had a bonfire
on second beach and made S'mores,
then went swimming under the Gull
moon. It was a lovely day. Suzanne,
a young STRI fellow on her way to Bocas
del Toro to study sea wichin evolution & ecology,
joined us, as did hercedes.

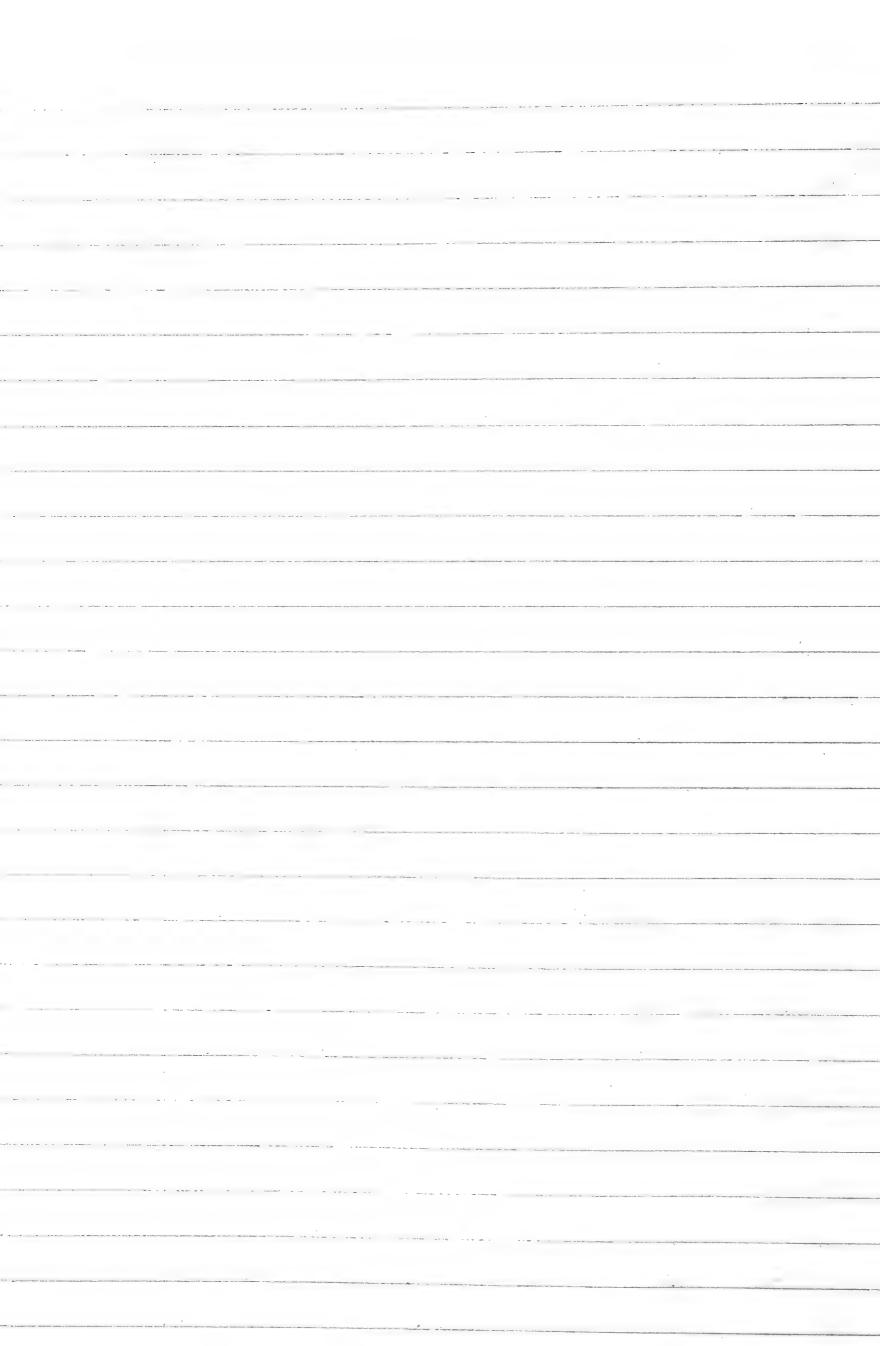
There were only two flaws in the day:

Eileen noticed in the evening that the Lond,

Planet claims there is no bus service at all

on Good Friday, the day they intended to leave.

We have to wait until tomorrow to combing or



E.H., 2002

Isla Boca Brava, Chiniqui, Panama

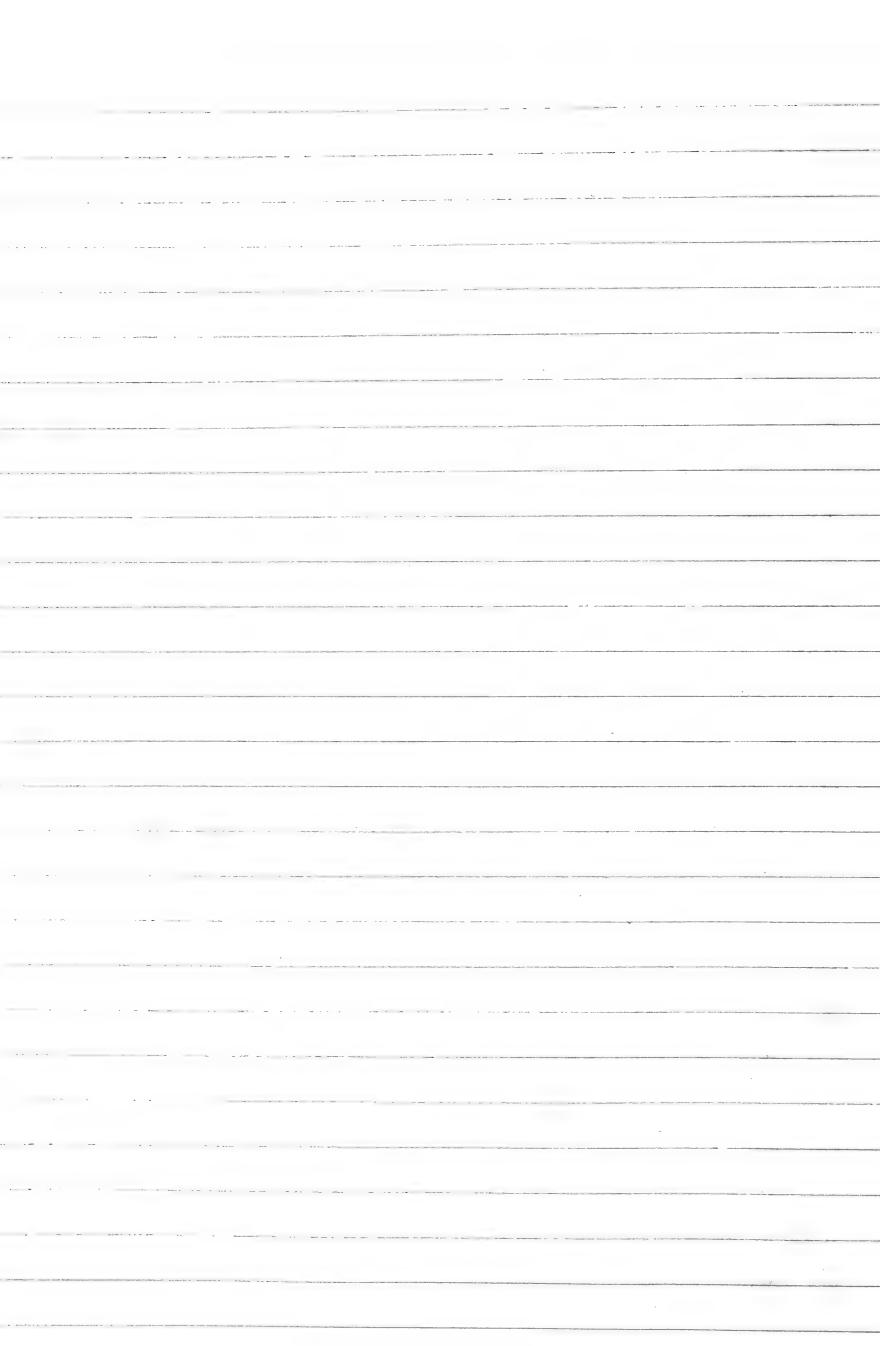
March int rebot that. And my leathermorn disappeared (I noticed: m 29 March, really). Stolen? or just (ost?

29 March 2002

We changed John & Eileen's flights for a total of \$200 to get around the problem of the buses. We're still not sure whether the buses were really running or not, but... at least we know they will run tomo now. They worked with the database all moning, did a little nest-searching, and met us for lunch on seems beach. The slow morning of data entry gave them some good ideas about streamlining the process, & I went back with them in the afternoon to participate in restructing the database further. Becca & Julie both saw copulations today, with partial bands. John taught us how to play camasta. It's been wonderful having Eileen I John here. It's a grad students dream of easy-access advice, expertise, etc.

30 March 2002

Eileen + John left in the morning, and life returned to normal. We did a regular 3- which day.



Journal

2002

E.H.

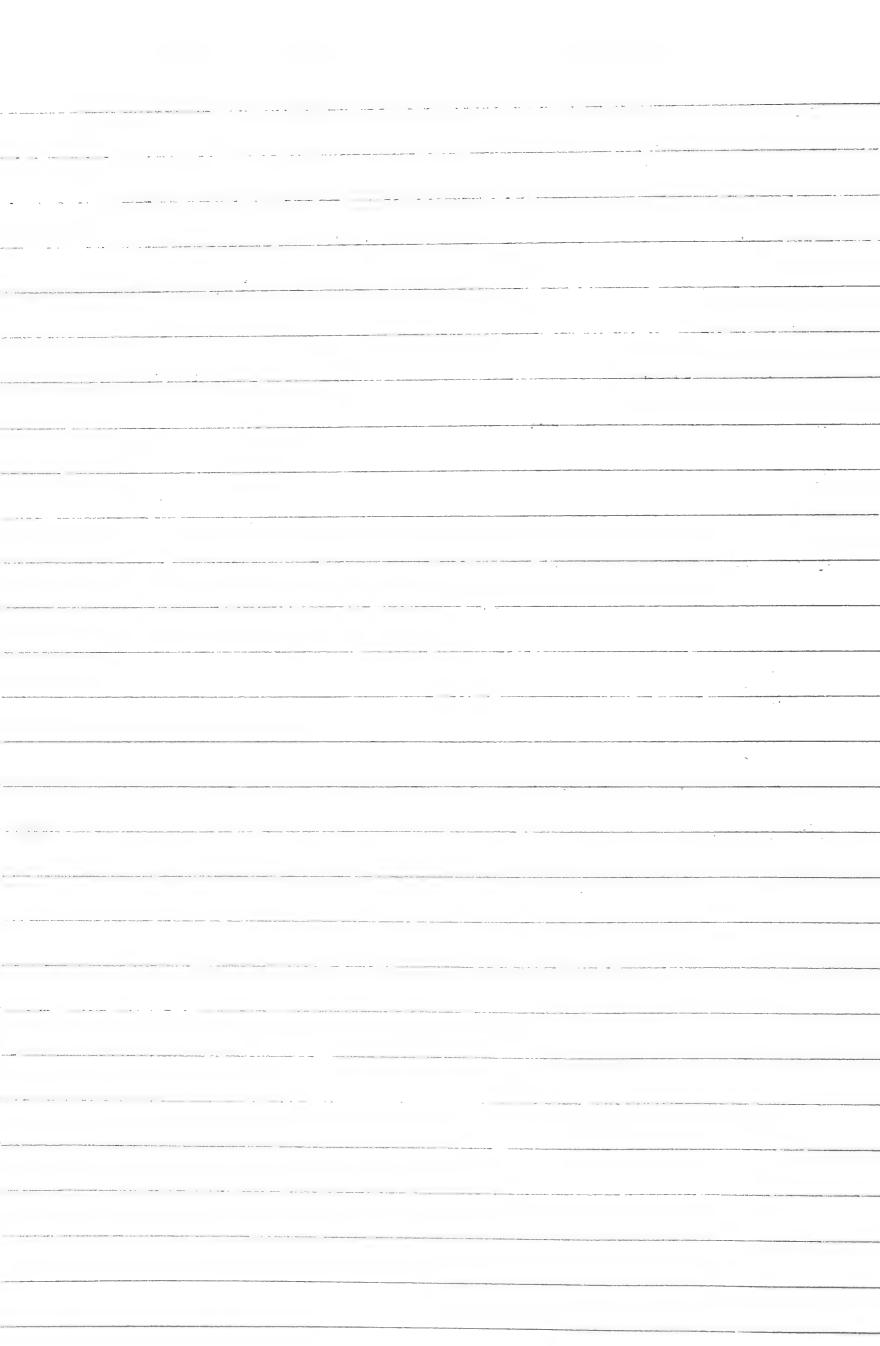
Isla Boca Brava, Chiriqui, Pavama

31 March 2002

Today was Easter, which means it's time for our annual "easter egg hunt." Easter was earlier this year than in previous years, and for once there were actually nests to be found. Meghan came over to help us, and Suzanne (the STRI fellow) joined us for part of the day. Becca found five nests, with no eggs, putting my two to shame. It's fun to have such a talented nest-search on the research team!

1 April 2002

We had a good, long day today with anothing in particular to report. I'm exhausted.



Do Val, Journal E.H. 2002 2 April 2002 Isla Boca Brava, Chiriqui, Panama Today was the official day off. Dince I had missed last week's trip to David, I went in with Frank and checked email for four hours. Kelevant news: there's an undergrendvate interested in doing an honors thesis on the manakin parasite stuff; IB has already alletted travel bonds + will not be giving me any this year (they sent out an email in early Murch saying that the deadline was March 8 of I got to town on March 11); Eileen + John got home Safely. I purchased \$5 worth of screen for the seed collection experiment, caught the San Felix bus, of had the incredible luck to catch a lift with Marcello (?) all the way to Boca Chica. I had already steeled myself for walking the 17 km road, so it was a pleasant Surprise. The guyala are ripe + the (cashens Bruit) drivers shared theirs; the maranon are also ripe, so we picked these during a brief Stop along the route. Pablo, Guiermo, I Luis, who are working on a gas station on the dock in Boca Chica, shared their dinner of fosteras and fried hotelogs. Friteras are fried dough made with egg + flow - a cross between hojaldres + pancakes. Pollo + Elny's una gave me a cold slice of sandia. A wonderful end to a long

Do Val, Journal E.H. Isla Boca Brava, Chinqui, Panama 3 April 2002 2002 lodge was one of those varied, successful days that makes being in the field so much fun. Julie and I netted at WELS in the morning, where the nets have been up but closed for more than a week. We caught two DMs neither of which were familiar to me It's possible that in areas like WELZ where there is no clear & there is a higher than normal rate of visitation by flowler DMs. Because of the difficulty of band-reading, our sampling will certainly be biased toward resident nales. We closed the nets due to sun at about 11:00 am, of went to place screening under a few nests for the seed collection experiment that we hope to write up as a short methods paper on determining hest stage. The trend of birds re-nesting in the same area seems to be continuity this year. We found two new nexts by SLNI, + put a screen under one of these that's still under construction. Ryan's R-A Seams
R-1, now contains I egg. It's in the same exact place as R-1 levt year, WOW's nest

Jolie & I each did a watch in the absorber.

Mine was at the 'new" (newly named - I've

known of it for years) display area now dubbed

HELICONIA (or 'HEL'). I saw an unb DM

consistently present in that Tish way, & APY (On).

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Du Val, Journal E.H. 3 Apr 2002, continued. Isla Boca Brava, Chinguí, Panamá 3 April, cont. After we reconvened, we carried nets from WEL3 to HEL and set them up where I'd just seen the males. We promptly caught the uns D.4 and when we went to close them there was an und CB in a different net. I left ? 6-meters up a tied shot for a brief mistnetting forag some afternoon som. We were late Ger dinner. Ryan & Becca did data entry all afternoon & get summaries (* vocs?) in for all of the last week for Ryan's data. It's Still slow going, but better them before the recent database revisions. I stayed up late entering some of my data from the pile of untouched March weatch sheets. 4 April 2002 I had scheduled mistretting for today, but with the targetted vub DM of the week already captured, Julie + I did AM matches + PM Lata entry istead. I found two mere new nexts under construction hear the EDM Lance parches. One is in a small sapling just behind of 2, where a nest failed lost year (E-something, 21?). It's even in the same fork of the sopling. Amoring! I wish I had the mys of nest sites from last year.

Du Val, Journal E-H. 2002 Isla Bora Brava, Chinqui, Panama 4 April, cont If I return for a short field season next year, this will make it easier to just swoop in as chicks are hatching, take blood, get bands, Julie à I entered summaries « vocalizations " for 18 of her observations but didn't get to whe Speed of data entry is still an issue, despite the streamlining that I did with John. 5 April 2002 Today was another dry season day - a handing North wind that made the plan to do a Govith watch a bit silly for today, but we persisted. Both of my morning watches had a lot of pip flight, but the Canales never went to the dp. They all seem preoccupied by finding nest sites. How much time does a female have between breeding + laying? 6 April 2002 T found 8 nests today - a new record! We've collectively found 30+ nexts in the last week, most of which do not yet have ago. The wanting are being aromoloush 5 quehronous. The wind ticked up in the evening & people are burning their posteres on the mainland. I found fine sea stys in tidepools believe the

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Do Val, Sournal E.H. 2002 Isla Boca Brava, Chinqui, Panama restaurant + one next. Boxer treed a Tansandva ontesde our lust at 10:30 pm.
Oh! A few days ago (gesterday, may be?) I found a grey-neeted woodomil retreating though the underloss of BRI display area. Perhaps this is what John & Eileen sow, not a tinamou? 7 April 2002 The day was entirely overcast, with a very breeze afternoon. It feels like the wet season! Everything soully like souke from the fires on the anihand. I saw dencing for a Gennale Good three in my Birst antch, of then the place fell quiet. Becca saw a (homan) copulation at BRIDGE, on the toail, & Ryon saw another on the beach. "ink! BRI is now called "Sunte-infested cosspool + quickie motel." 9 April 2002 Today was the day off, but Julie x I worked. She saw a probable copulation on one of her watches. My day was billed with small disasters - splitting my toenail in half during a post-work swin, having the pig dump out & roll on my clean clothes, having the sext of my jeans dissolved by buttery acid.

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DoVal, Journal E.H. 2002 Isla Boca Brava, Chinqui, Panama 10 Apr 2002 The Catherns thoushes are in bull swing, squabbling in the bushes & flitting about like manakins. The pig escaped again, but I saved by clother. Their migration seems to bé in bull swing. 11 April 2002 We were analyted by the pig excaping, again, at 5:50am. Not the test way to start the day. I Statued at nest E-2 of bound the female RRPR feeding the chick. I saw a chick I am egg When I looked in the next at 07:30, but when I Checked again at 10:00, thinking of bleeding the chock, there were two chicks! I'm waiting world tomorrow to bleed them. We dissensed the seeds under nests paper idea after direct, & the consensus is that we Should proceed, though confounding variables like Stope that the vest is on may make our result not. very-iseful

Do Val, Journal E.H. Isla Boca Brava, Chinqui, Panama 2002 12 April 2002 loday was significant because me took blood from the E-2 chicks (48 x 24 hours old), whose mother is RRR (SCTR). It was also the first day with any reasonable amount of rain - a os today yen the fact few inches fell at night as are sat around playing Scrabble with Padira. Becca + I did 3 watches each, while julie & Ryan did 2 watches of entered the vocalizations on their week of data sheets in the evening. The summary system streamlines it so that this and is pessible, at least. I'll have to back + enter displays myself. Temp: 77-90°F - the lowest high temperature we've had all season, I think! Nest E-5 Galed + Julie collected a fam-sized little pile of seeds from beneath it. I hiked to the gully past Class & Metholds home & found two vew rests, with one egg each. I would like to talk to them & see if they're Still interested in helping out on the project monitoring thouse next would save some hiking time for us. E-12 is in precisely the same place as last year's E-Al, showing vest sites, or at least stick to the same I took GPS coordinates for georeforencis.

Du Val, Journal E.H. Isla Boca Brava, Chinqui, Panama 2002 I found a nest with one chick, I days old today - near the bottom of the FBE road (E-14). Evidence that there's more uest-searching to be done! I'll state the next tomorrow. Again, the birds seemed particularly active . the ofteneon. Julie saw a near-copulation cet BTR that included 2-male display. Then have been a surprising number of solo male displaye that were effective this year. So if cooperation is not obligate, what are the conditions that lead to it, of why does it exist? Are females viziting perches multiple times, a coming back to those they like to see solo displays? Do we ever record nutiple visits! We have good evidence of 'Shapping' with BOB moving between perches + ultimately copulating - but it doesn't seem that her wind was already made of it she visited several perhas sevially before making her choice... I saw the first ovenbrd I've seen in a long while today - foraging in the leaf litter near SLN2

Do Val, Journal E.H. Isla Boca Brava, Chiriqui, Panama 16 April 2002 I went to David today to order new binoculars. Julie's are starting to leak, and Becca recently dropped hers on Marin Street & Knocked them entirely out of allignment. Eileen & John brought a waterproof pair that I ordered back in March & I'm warried - I didn't budget for buying one pair of binoculars, much less two! But they are our most Vital piece of equipment... I ordered Bushnell Natureviews: we'll see what comes. Clint is maybe coming to Panama in a few weeks, and he can bring them then. 19 April 2002 Julie saw two copulations in one watch at SBE2 today, and one of her nests hatched. Becca worked on the cage we may use for captive alphas all afternoon. It's a lon */m cube with a PVC pipe frame and surrounded by screen, with an easy-access panel for changing newspapers and doors that hook

shot over nails. Elegantly made.

DoVal, Journal E.H. Isla Boca Brava, Chinguí, Panamá 20 April 2002 2002 It was a 4-watch day today, so we've all exhausted & in bed by 8:30. Highlights! I found a brown vine snake eating a gecko-like ande that I didn't know existed on the island (or anywhere clase, in fact). Their jaws were locked together & neither was moving, but it was clear that the snake was winning. I took many many pictures. There's a dominance scriffle in progress at CAS-Seemed dominant to him, (chased back when chased, & did pip flights & solo dances (no 4) 21 Apr 2002 Chick season is in Bull swing now we have four nests on the table that need to be staked, all at once. That's in addition to form more that I've already taken blood samples. Becca + I each did a watch at BRI (I saw ARA + BOW dance for a female, as I'd been hoping to) & took tums staking nests. My nest near SLN1

Led WB - (6) feeding - probabl, 480, who formerly nested in land

DoVal. Journal E.H. 2002 Isla Boca Brava Chinqui, Panama
theat was cleared for John's Bioh camp. She not only ate the fecal suc, but Birst reached INTO the chick's gaping man + pulled out some stringy white good at at it - 3 times. I've never seen THAT before. Becca & I completed construction of the case for a captive alpha , & it looks great - PVC frame covered with screening, with several types of perches inside « a system bor hanging Good & changing water Now if only we can get him to cat 22 April 2002 We have 5 rests that need to be staked, all at once - and itill probably be 6 tomorrow. I saw dancing bor a female by TWV with 2 different B's (2 deferent boots) today, in addition to a wonderful solo display for a female by YWV that involved 3 near-cop testims. Eventally



DoVal, Soumal E.H. 2002 Isla Boca Brava Chinqui, Panama YWV left in apparent disgust while the famile 24 May con't sat on the dance perch, looking around cusually. 25 May 2002 Yesterday was the day in David, and I actually teich the day off today because I had Simply Sterrted to burn out. By the afternoon I was feeling energetic + took a like to check nests. Ryan is Suffering through a cold now, but no one else has shown signs of getting Sick - so far!

DeVal, Journal E.H. Isla Boca Brava Chinqui, Panamé 2002 # April 2002 a 27 April Becca and I notited at BRI in the worning and of ternoon, and caught 5 manaking on the last (after 5:30pm) net and. One of the 5, a green female who had been unbanded, was unable to Bly When released. There was no obvious injury, but, like several manakins before, she could parch but tumbled to the ground when she attempted to fly. As we have the cage ready for a captured alpha, we took her home and kept her overnight In the morning she hadn't moved at all, + was still unable to fly. Becca + I gave her cantelope joice dripped outor the tip of her beak from a syringe + she drank 1/4-1/2 cc. In the afternoon, She seemed more alert and though still unable to bly. She could les between perches, so we released her at BRI again. When Becca searched the same area later in the day, ste the bird was not to be Gound. Unfortunately she had a BP of 3 but Becca + I decided that it was

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DoVal, Journal E.H. 2002 Isla Boca Brava, Chinqui, Panama 6-27 April, cent. botter to seal the down of the eggs + wake sure the female had a fighting chance than to leave her to the snakes ovenight, when she was on the Several nests were found to have eggs today, including one of the ones by Claus's house. I staked the newly-hatched E-8 by ACA, + Saw PYP feeding the chicks. That makes 3 years of chicks from her. Julie confirmed that BOB is the mother of a nest near BTR as well. Some females scen to be consistently successful. WVR's childes in E-1 are gone, either fledged or eaten, + I saw WVR on the dance perch at BRI (5%), with ARA & BOW dances (ARA ecked). ARA for the removal experiment. I paid the weeks 6:11-8,57.45.



DuVal, Journal E.H. Isla Boca Brava, Chinqui Paname 2002 25 April 2002 ARA continues to elude us at BRI, despite our netting effects. Clint called from Panama City and will be on Boca Brava in the morning, loday was the official half-way point of the Season, so we had a party: piña coladas (generously matched by Frank), dancing with Elvy... We even got Ryan to dance. The restaurant ran out ab gas bear cooking dinner, so we made Kraft Dinner over my whisperlite on the platform where the second rancho used to stand. It's hard to believe that the field season is already half finished! 50 April 2002 Today was the day off, and I wastly Spent it with Clint. Becca Stiffed a young male & Sapphine - throated Humaningbrid that Amelia bound dead in the restaurant. Humming birds in general have become noticeably scarce in the last few weeks. For a while, the Rufans - Tailed Hummingboods were showing up at most watches, havering before us mere feet away. It's been at least ten days since I've seen a Reform-Tailed, and larger since I've seen a Little Hemit



Journal

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G.H.

Isla Boca Brava, Chinqui, Panama

2 May 2002

I netted at BRI with Clist, targetting ARA for removal. No lock yet.

3 May 2002

We caught ARA and changed his bands to SRC for easier recognition. Clint was moving incredibly slowly as we closed not and prepared to take the bird back to our holding cage and I would supped at him about it. He claimed that he would work while here after all. I debated about keeping him in captivity vs. releasing him on Linarte, and finally opted for the latter. I paid Chino \$3 to take Clint, me, and "SRC" to Linarte. SRC flew away strongly, and I feel good about the decision.

The Swainson's Thrushes have disappeared entirely from Boca Brava, now. The

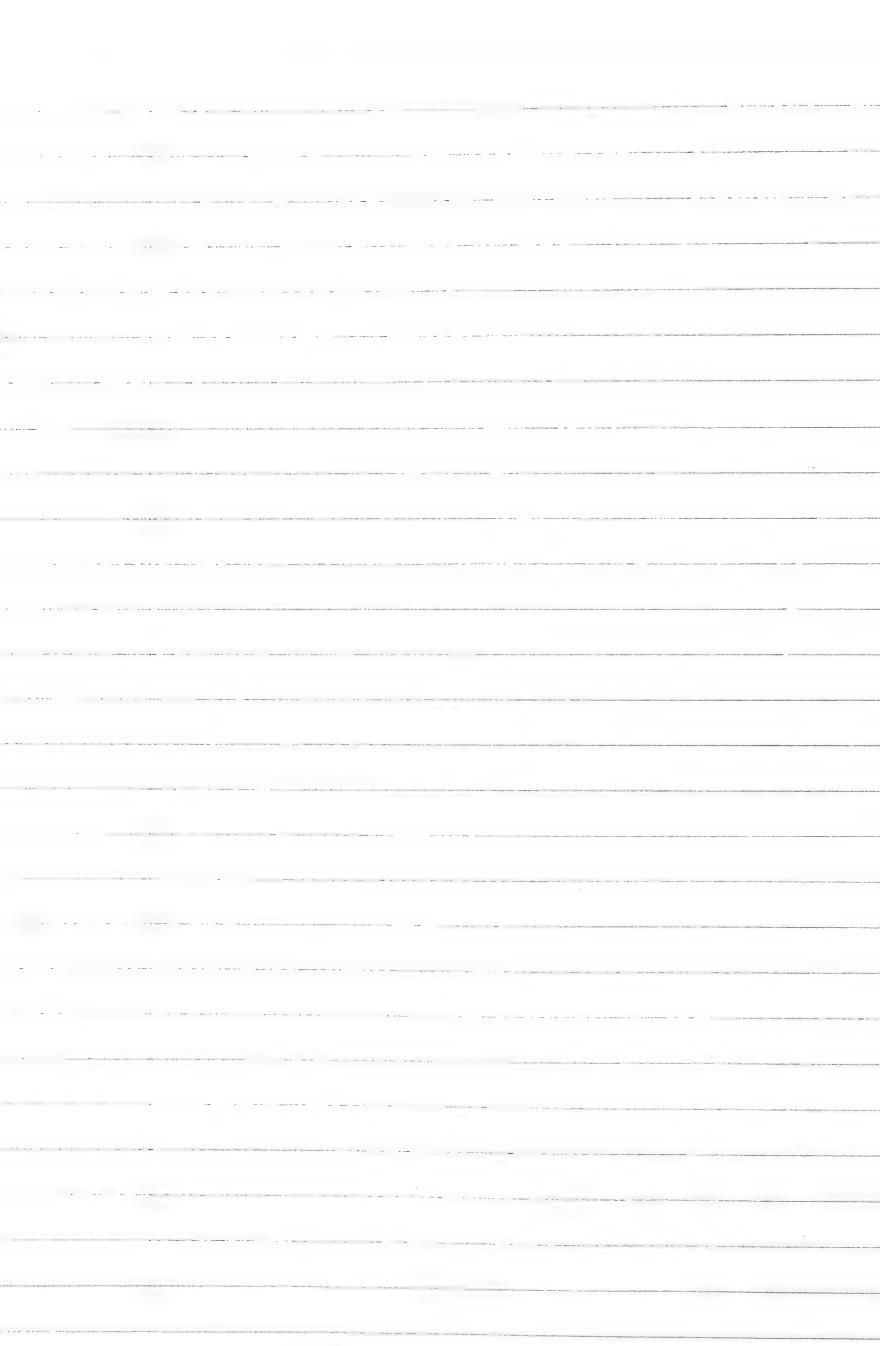
6 May 2002

Clint and I target - wetted the unbanded female who just heatched a Chick by SBE1. We caught her and banded her WAW, and took a blood Sample from the Chick. A Swallow - Tailed Kife flew over second beach at lunch - the first I've seen on Isla Bou Brava.



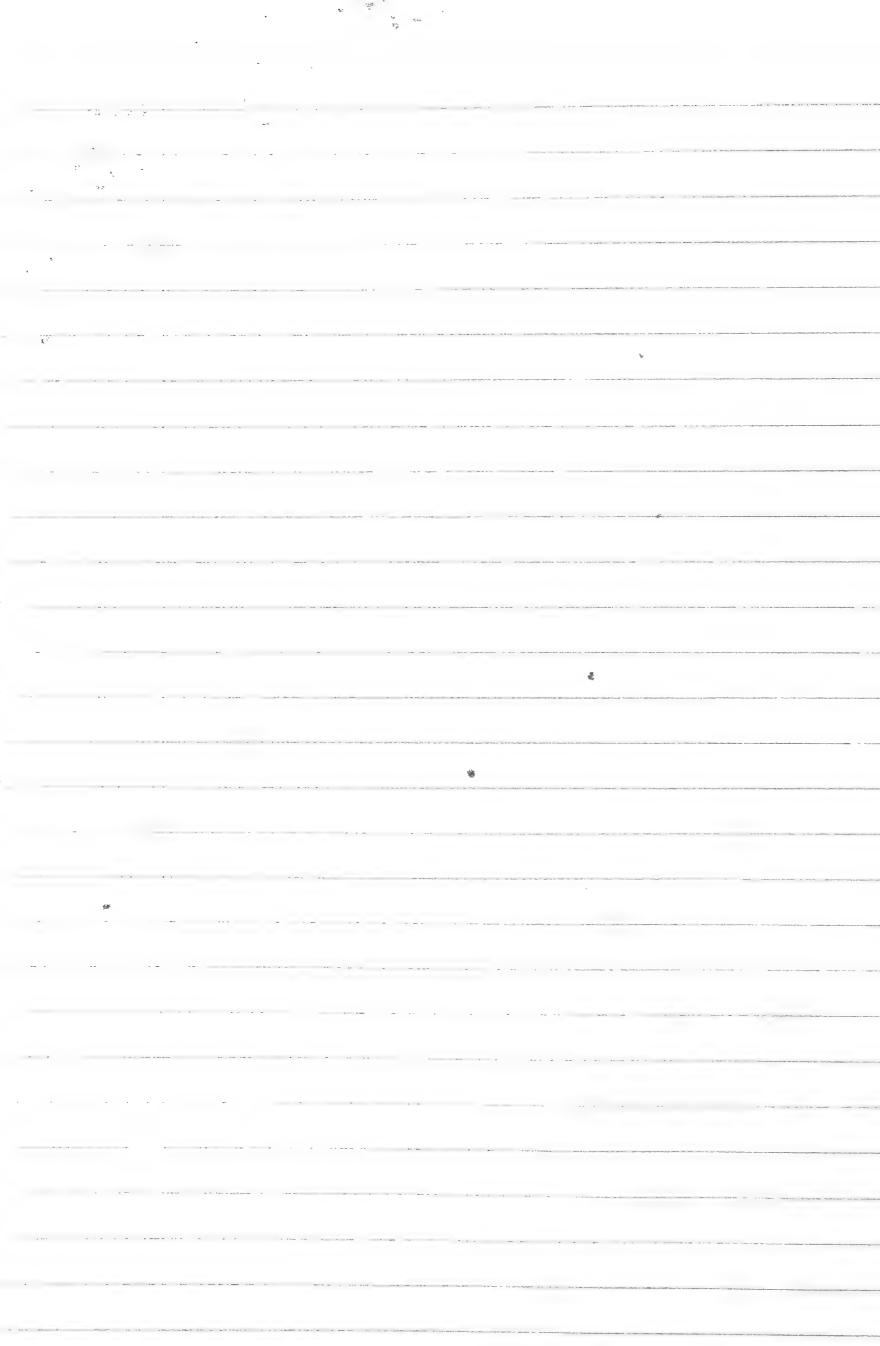
Journal E-H. 2002 Isla Boca Brava Chinqui, Panama + May 2002 I mistnetted for the unbanded RC female of J-5 in CAS, with Clint, in the broming. Clist was string by one of the large red wasps and suffered from it. for the rest of the day. At lunch time, we packed up and went to Boca Chica to Start weelling to Horcencito. It's the first day of my annual vacation! (We didn't catch the unbRC, and I decided to try for her when I got back). We walked about 14 of the distance to Horconcito before (Gambute') Picked us up in his taxi for 1.50 each Before that happened I whistled in an unbanded DM by immitating a pip blight. I heard him doing a mangled-sounding QR in a caporada aff to the right (as you walk away from Boca Chica), It's the same place where I heard manaking with Ene last gear: a cattle barm with a Small house hear the caprada In David, we stayed at the Hotel

Toledo (18) and went to the movies.



E.H. Journal. 2002 Road to Changuinola from David, Chinqui and Bocas, Panama 8 May 2002 We took a bus across the Cordillere to Changuinela. and spent the night there, as the border crossing had already closed. The difference in precipitation between the Caribbean & Pacific Sides of STRIS Bidagical Station, and we passed a suspicionshy biologist- looking men in foul weather gear at a crossroads. The road passes a tree with 6 or 50 oroperdola nests, and there is a profusion of Ngibe villages just. over the mountains. Puerto Viejo, Costa Rica 1 hay 2002 We staged at case Verde in Puerto Vicjo, Costa Rica, which caters to poison dart brogs. I saw Tendrobates pumilio and D. auratus in their garden + mini-vivarium. Everto Viejo is overno with American ex-pats + backpackers, even in the off Season, but it was Still a very place. Hot showers! 10 Man 2002 We hiked down the black sand beach in

We hiked down the black sand beach in the worning, accompanied by three local dogs, and I caught a D. avratus (green with black splotches) up a side street. It



E.H.

Poerto Viejo, Costa Rica
had two tadpoles clinging to its back with a
larger of sline between them! It's the first
time I've seem frag parental care in action.
Sixacla Costa Rica to David, Panama

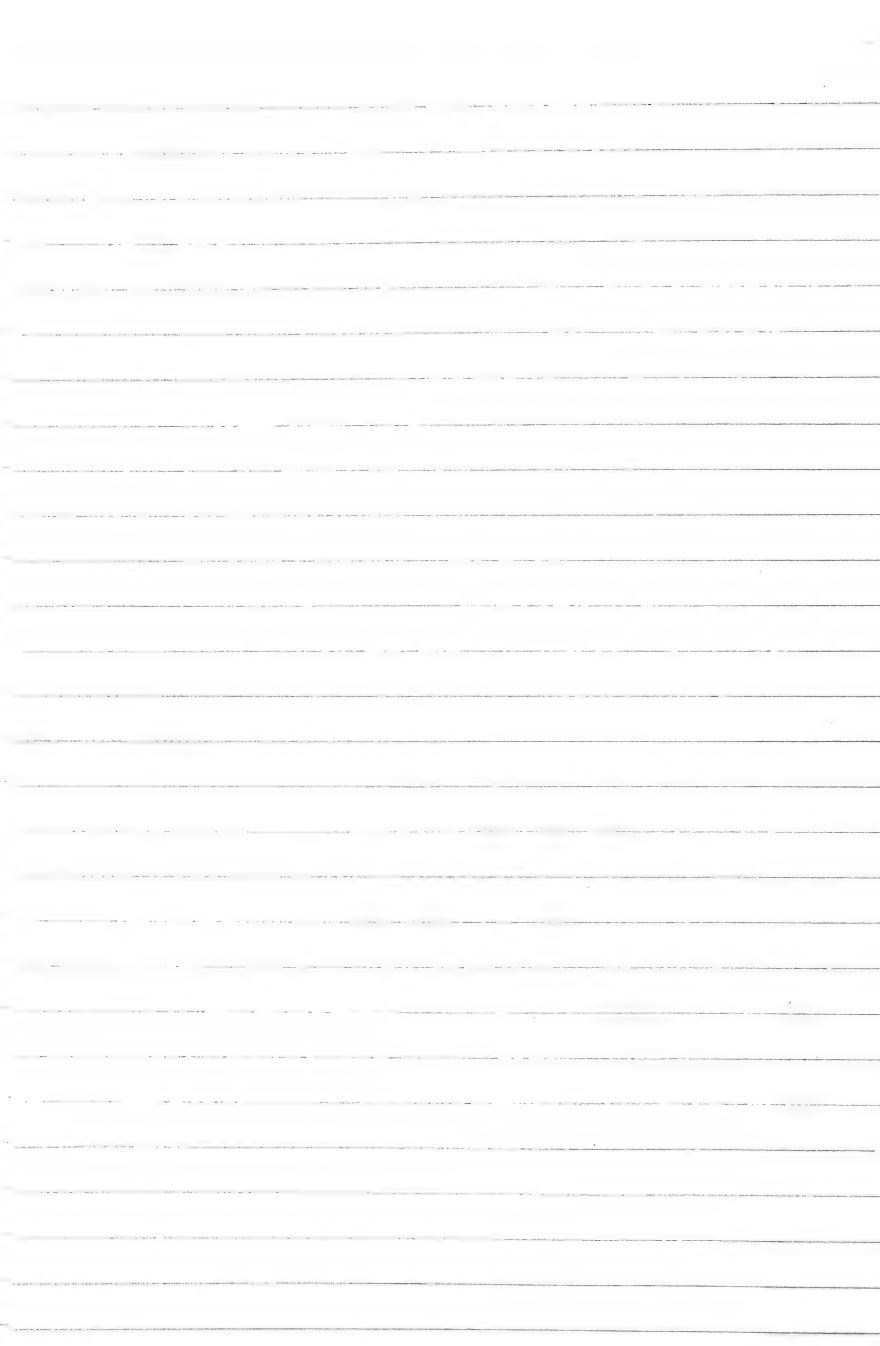
11 May 2002

We returned to Pavame and David in a long day of travel. I had to cross the Sixgola-Bushito bridge a total of five times after we had solved all problems with tourist cards, lost bags, etc. And I do hate that bridge The road at Sixgola was underwoter, and we had to like into town along the vail road tracks, with a procession of locals.

Isla Boca Brava, Chinqui, Panama
12 May 2002

I returned to Boca Brava and Clint left for Panama City. Chris Lorian, Julie's husband, is on the field site to visit and is being helpful in the same sort of relaxed went that Clint was. Everything seems to have been handled well in my absence.

We began contiting seeds in the afternoon for our "seed experiment" and got



Isla Boca Brava, Chiniqui, Panama

May, cont through most of the Samples collected to dute.

I do y know that the samples collected to dute.

I don't know whether this idea is going

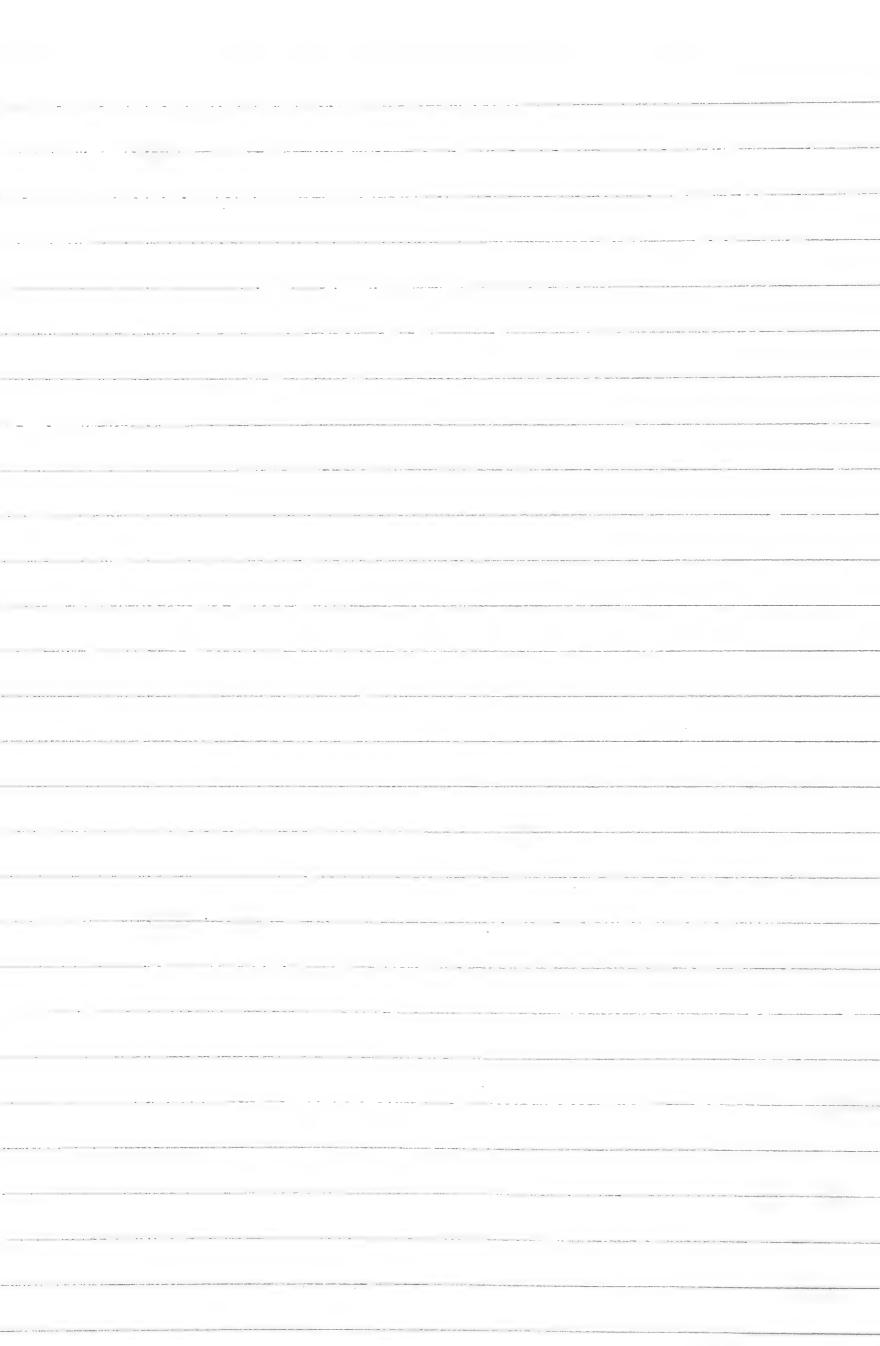
to pan out or not.

15 May 2002

Julie and Chris left with Frank to take their vacation in Puerto Viejo, Costa Rica. It's still very dy here.

16 May 2002

I skipped the morning watches to Sort clata Sheets and assess where we are in the task of identifying alphas and betas. In the earlate morning I went to check nest E-21 and found that the nest had partially disentegrated, forming a hole that drupped the chick and egg out. I had Checked it two days before and bound one Chick just barely peeking his way out of the eyg. I picked up and could hear his steady "tap, tap, tap." I searched through the leaf litter below the nest and found no sign of the egg, & but I followed a faint peeping noise to the chick. He was getting cold, but was still moving wound and the bemale was brantially mobbing me.



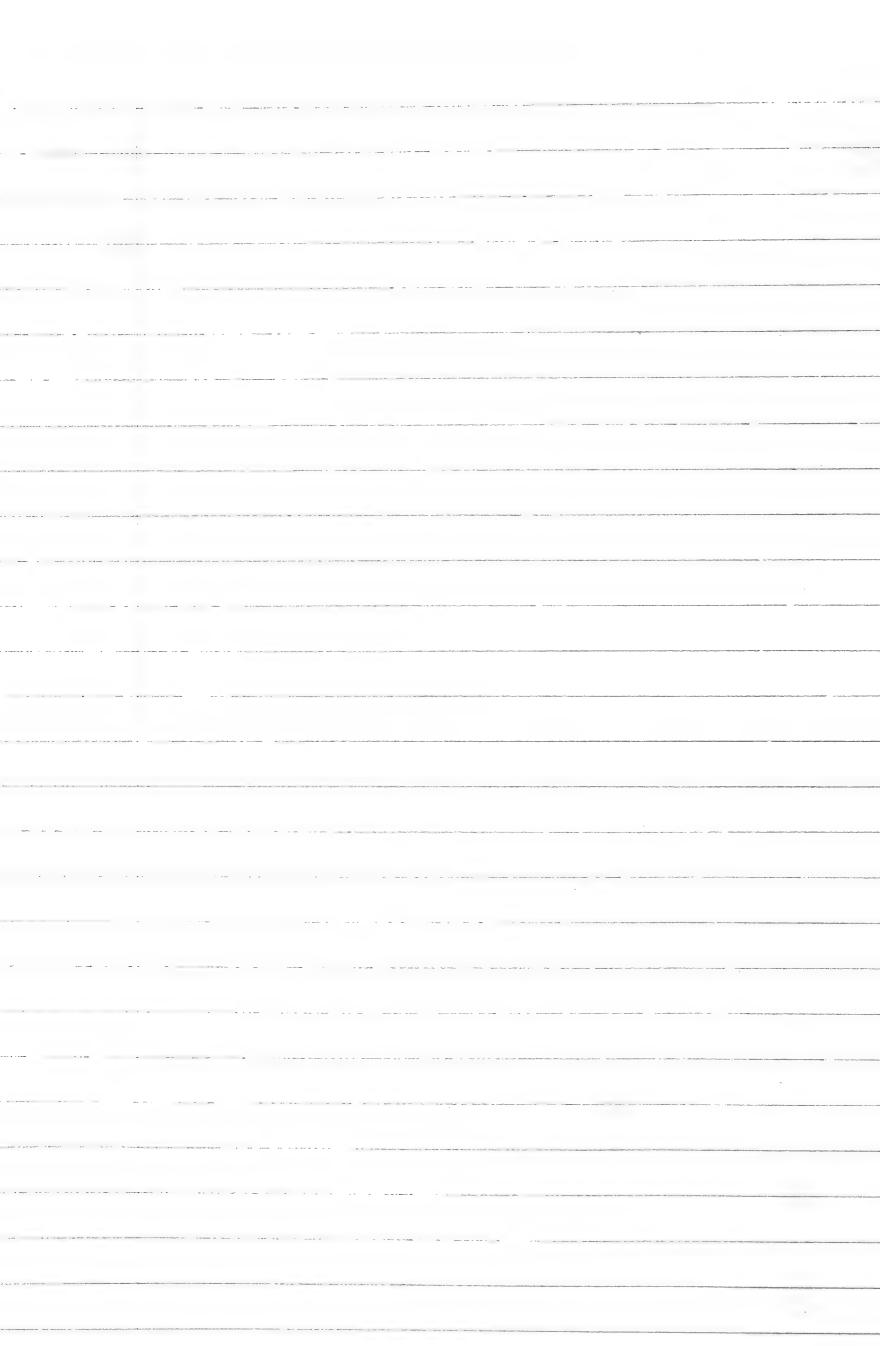
Journal

E.H. 2002

Isla Boca Brava, Chinqui, Panama

May, cont I fixed the nest with dental flows, replaced the chick lafter taking a blood sample in case he didn't make it), and got the female's bands: RWY. When which time come, it begen to pour. It was our first real lay of the rainy season. Becca and Ryan were Still Sitting on the beach When I got there, Scaked through and goining. Boxer protested our ridizulans behavior, sitting apart with his ears down & head down, waiting for us to come to our senses and go home. When we did head back, our shoes were completely full of water before we reached first beach. The termites have just started the annual post-rain Blight.

It was the four-watch day, and I also vegged nest E-13. Class & Merhtildt are gene for the month, so I briefly took Shelter on their porch when it began to tain at Span. Eventually I struct out for home. There are more termites swarming than there were yesterday, and dragonflies seem to be diving through the clouds, eating



E-H. 2002

Isla Boca Brava, Chinqui Panama

18 May 2002

ARA (now SRC) has returned to the BRI display area! So much for the idea that would ins want bly across water. SRC was the only male around for most of my watch at BRI, and he was extremely active. BOW was nowhere to be seen. We dishit watch BRI as the 19th, but Becca saw a chase that involved 2 DM's on. The 18th. Unfortuntly she didn't get the bands on either male. It may have been an outraged SRC chasing BOW.

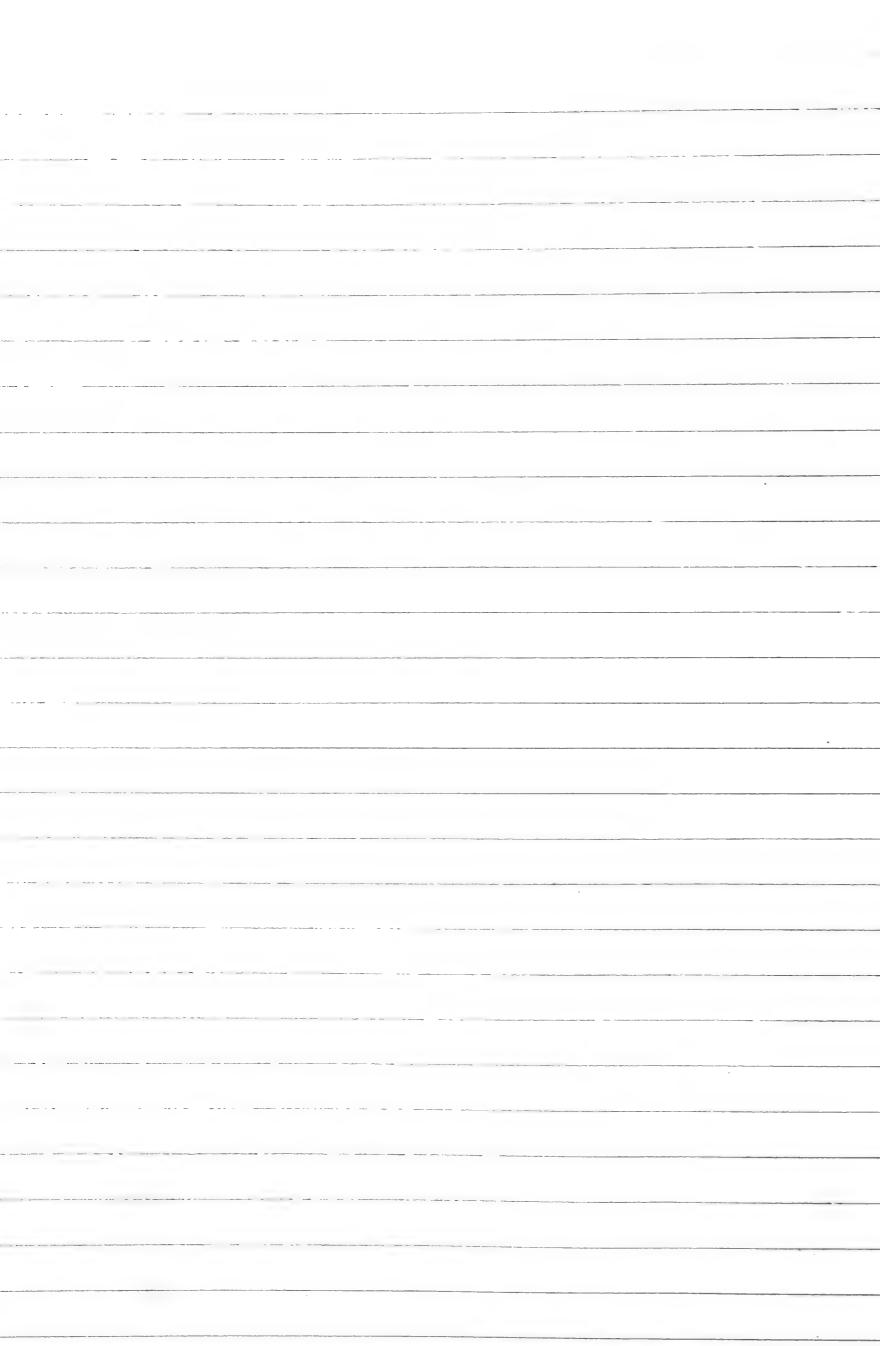
I nestsearched in the golly east of LOTS and bound a nest with two chicks (!).

As I bled them, WOW (#300) mobbed me as aggressively as a manakin can mob.

In the afternoon, Ryan and I set nets for AYA (an of to be removed) at ACAY and opened them for about an home.

19 May 2002

we caught AiA almost immediately this morning at ACAY. I decided to try holding males him in captivity, since relocating the to work.



Isla Boca Brava, Chiriqui, Panama

May can't Ryan and I put Micenia fruit, Euphorbiacea fruit, and some branches with edible-looking red berries in the cage, and left him alone the was very active all day long, searching for a way out of the cage.

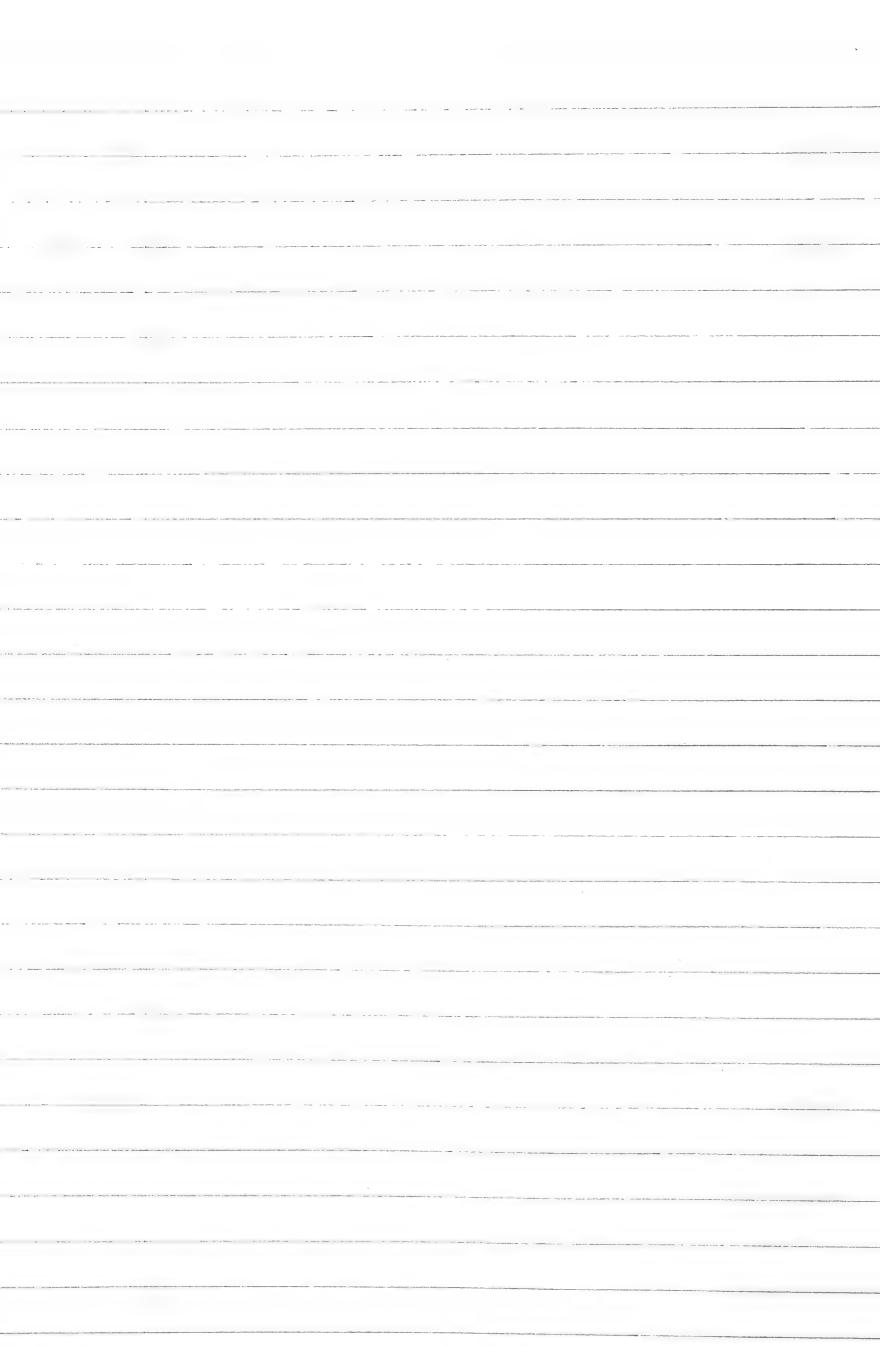
We re-opened the hets after getting AYA settled, hoping that we might catch WBY (DM) for a blood Sample before his corrent beta status changes. We didn't eatch WB', but we did have several other interesting captures:

- DOR, a 4, had an infected vight leg. The red band was immobilized by the swelling, so we removed it and left her GOX. The aluminum band dight seem to be causing any problems, so we left it.
- 2) NOP, a chick from 2000, is a bull CB 3) AAP (DM) who is easily confused with VIP and AVP, both DMs. One or two of these males are betas at SBE2 + WEL3. I changed his bands. to a more recognizable AYS.

Becca bound a dead iguame in MAN, so bresh that it was still bleeding from the mosth. It appeared to have ballon from a tree. We dissected it in the evening. Stommeth capterits: leaves.

Julie came home from her vacation.

There seem to be more humming sirds in the area new.



DuVal, Journal E.H. Isla Boca Brava, Chinqui, Panama 2002 This morning I found the captive DM, AYA, dead on the floor of his cage. It appears that he never did eat, and that his high activity + netabolism. rates plus non-existant fat did him in: he was directly below the parch where he had posted the previous night. Becca, who is much better at specimen prep than I am, spent the entire morning skinning him. I borgot to mention that we should save tissue samples and syrinx, and she discarded the body before I returned home in the afternoon. She did measure the testes, however. 21 May 2002 We all went to David today, and Becca began her vacation. I went with Becca & Ryan to the immigration office to extend their visas. That went smoothly, but when I tried to buy my tourist card the woman in charge pointed out (rather severely) that I was not properly stamped into Panama, When I entered at Gualito, they stamped "salida" instead of "entrada". After much arguing about how I couldn't afford the time or money to go to the other

Side of Panama and have the Gualito office fix things, I had to give in. I got a letter Stating that I was on my way to correct a clerical

error, just in case I was stopped by police

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Do Val, Journal E.H. 2002 Isla Boca Brava, Chinqui, Panama May, cont. inbetween David and Guabite. Kyan + Julie went back to Boca Brava, and I Stayed with Becca in David for the night. We did three hours of email & saw Spiderman before calling it a night. 22 May 2002 I left for Changoinda on the 6 am bus, amised at 10:30, took a text to Guabito, had the passport re-stamped 10 minutes later, and was on my way back. I made it to Boca Brava at 8:30 pm, after catching the Parama-David bus at the crossmado of the Interamericano and the Changuinola route; waiting for a lift for 1/2 hours; & waiting for a flat to be changed halfway through the Horconcito - Boca Chica leg. 6-year-old Jason befriended me at the Horcencito cross roads (initially thinking I was Megan Hoysesty) and gave me manges for the road. Moises gave me a cut-rate boat ride (*1.10 because it was all I had, plus a beer tomorrow) 23 May 2002 Just Julie, Ryan, & I worked today as Becca's vacation continues until the 25th Frank

Testa Boca Brava Chinqui Panama'

May, cont. and Yadira are in Golfito votil tomorrow. Amelia

found a 6' boa in the kitchen yesterday, and

a viper (so she says) on the stairs by her

cabaña in the anoming. There's a black
hooded antshrike nest with two chicks close

to fledging along the path down to the second

beach (near SBE 5). When I stopped to

check on it today, the female fluttered

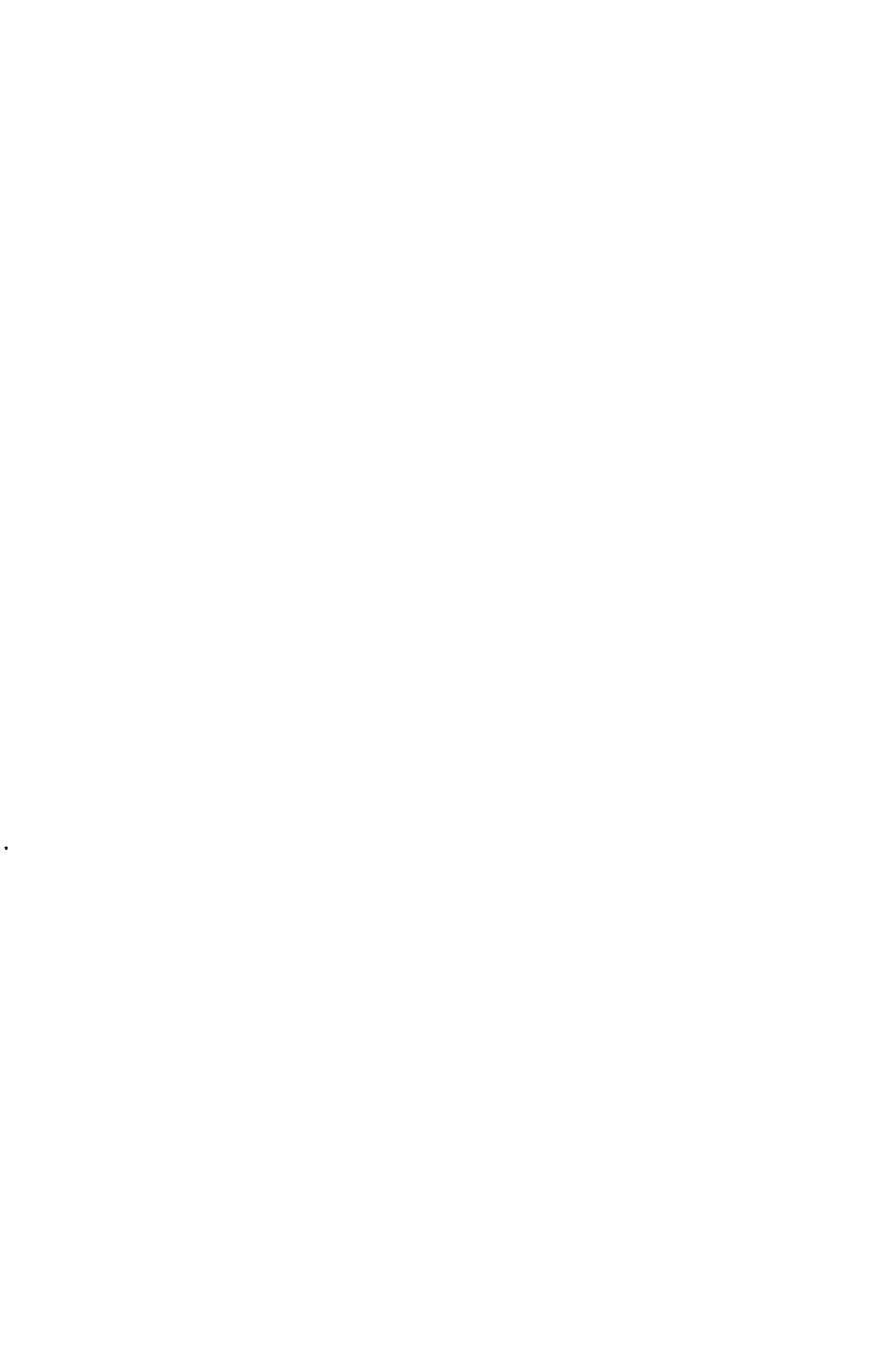
away, mostly walking conspicuously away from

the nest rather than really trying to fake

injury. The male sat autionless on the

side of the nest.

Julic and I got up at 5:45 am to just the length of the field site. It was crazy, but I felt more evergetic all day long. Julic Saw two snakes today much to her horror. At wel3 I saw 2 Ding dancing for a "?" who then started giving a mangled warbly eek call. Babies dancing? Unfortunately I conduit see "her" to see if she had bands. Julic also saw some of this year's chicks at FBE, where the DMs somed to mistake one for a female and do SF-L.



2002

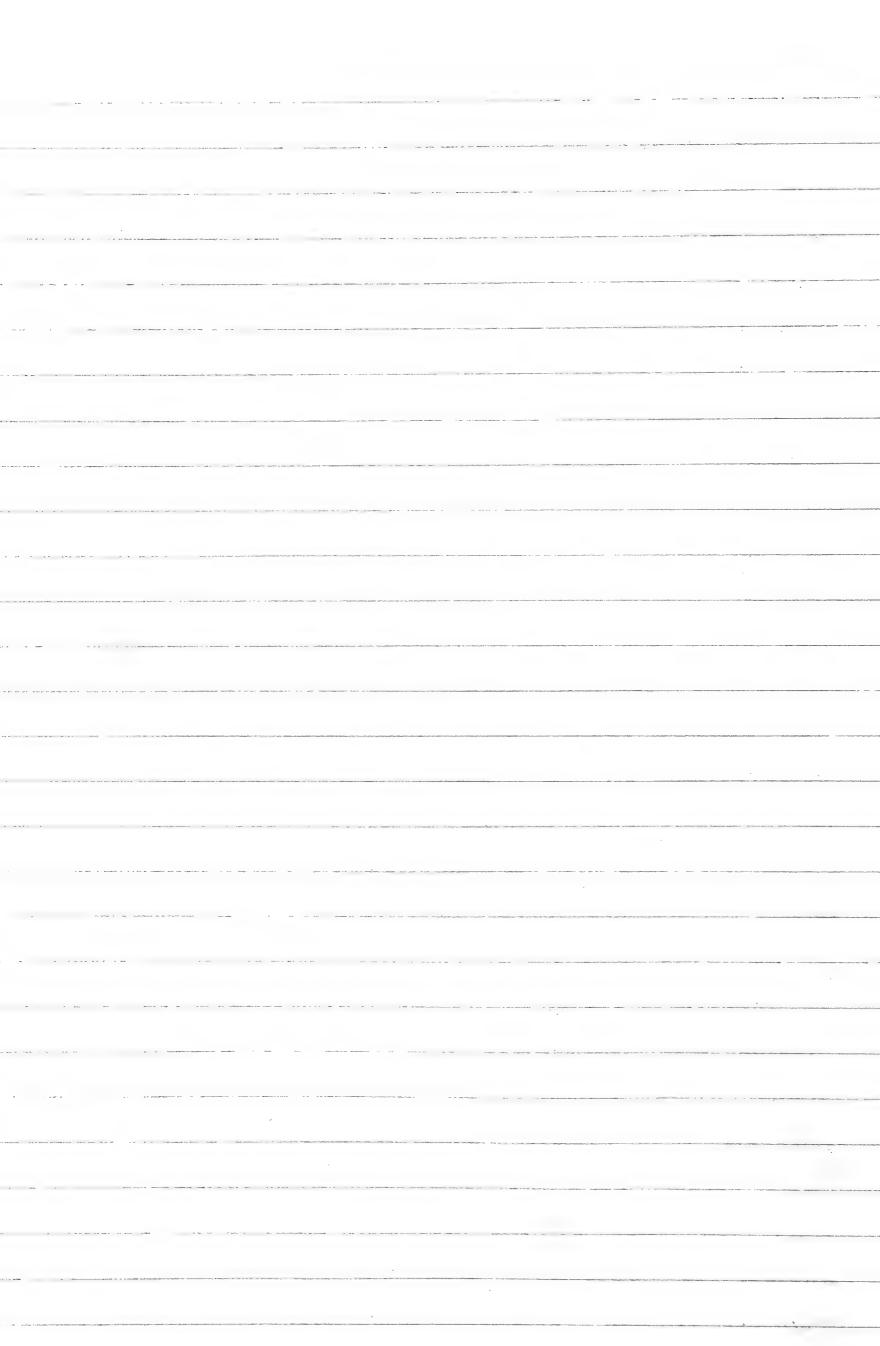
Isla Boca Brava, Chiniqui, Panama' 25 May 2002

It rained in the afternoon, cutting our throd watch short. Becca and Chris came back to the island. Ryam saw a "silvador" snake at Bridge ((lelia clelia?) that carefully investigated his backpack and nullified a good 40 minutes of his worth. I banded the E-26 chicks (4 = wow), one of which get band #500 - we've come a long way! 312" rain

26 May 2002

It started raining during the first world of
the day, twenty minutes in, and we all trooped
home to do data entry. We set up shop in
the hammock holder with two people entering
vocalizations on the computer, one organizing
nest sheets, one counting seeds for the seed
experiment, and we catching up on these field
notes - there are some huge holes in this account
of the field season.

Senson was surprisingly late; we've seen many solo displays for Genales (as in not preceded by 2-male dances/displays; we've seen seen more copulations than in any previous year (at least partially due to the larger number of observers); twe've found nests of two (?) females who we saw copulate (AYR was one).



Isla Boca Brava, Chinqui, Panama

27 May 2002

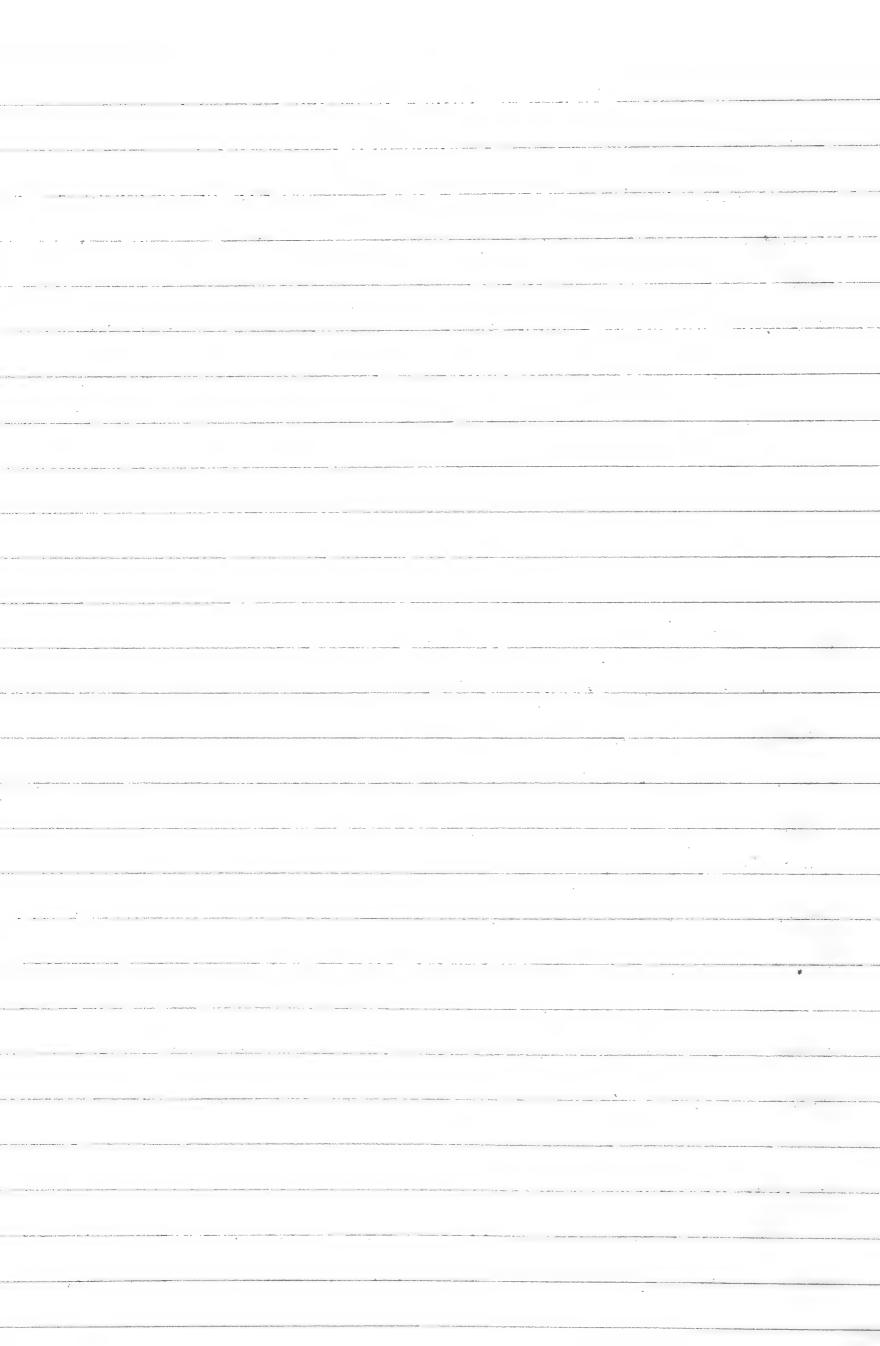
Chris Lorian staked Beccars nest near TEJZ without success today, then helped me set nets around SLN2' to try to catch the unb DM that frequents the area. Otherwise, it was not due so usual. Ryan left on the morning for his Boquette meatin and want be heme until Friday.

28 May 2002

Today was the 'day off' so I warked a half day, netting at SLN2 (I carght or non-terget DM, APP, and an uns G, non (6BG), stating Beccaro TCJ2 next x her nest near BTE3, both of which have chicks. Yesterday I cheeked E-27 and found GPA sitting on the side of the net - the easiest way to get female bands! Her nest this year is about 30mg from the one last year. I'm soig to and up with 90 nests from about 25 bemeles! But any nest is a good next.

29 May 2002

I intended to mistnet for unbanded DMs today, but never quite got my act together. Instead



E.H. 2002

Isla Boca Brava, Chiriqui, Panama

I did watches at places where I intend to either catch an unb DM or remove an alpha, eventually — CAS, SLNZ, SNK. Julie staked Nest B-12 and Becca staked B-15, both without success, but as I walked to SLN I passed B-12 and saw WSP(G) sifting on the side of the next. She is the Gernale that Julie saw mate multiple times at SBEZ, and I'm delighted to have blood from her chicks.

30 May 2002

Julie & Becca did watches, uniting in the video camera occordings along with thin of the duties, today. I'm poping for a good recording from at uninimum, Rach of the main display areas, I unistretted at EDM for GAG all day, without luck. I did, however, catch GVA, the B from DTR display area. One more homone sample down... Still we luck staking the B-15 nest.

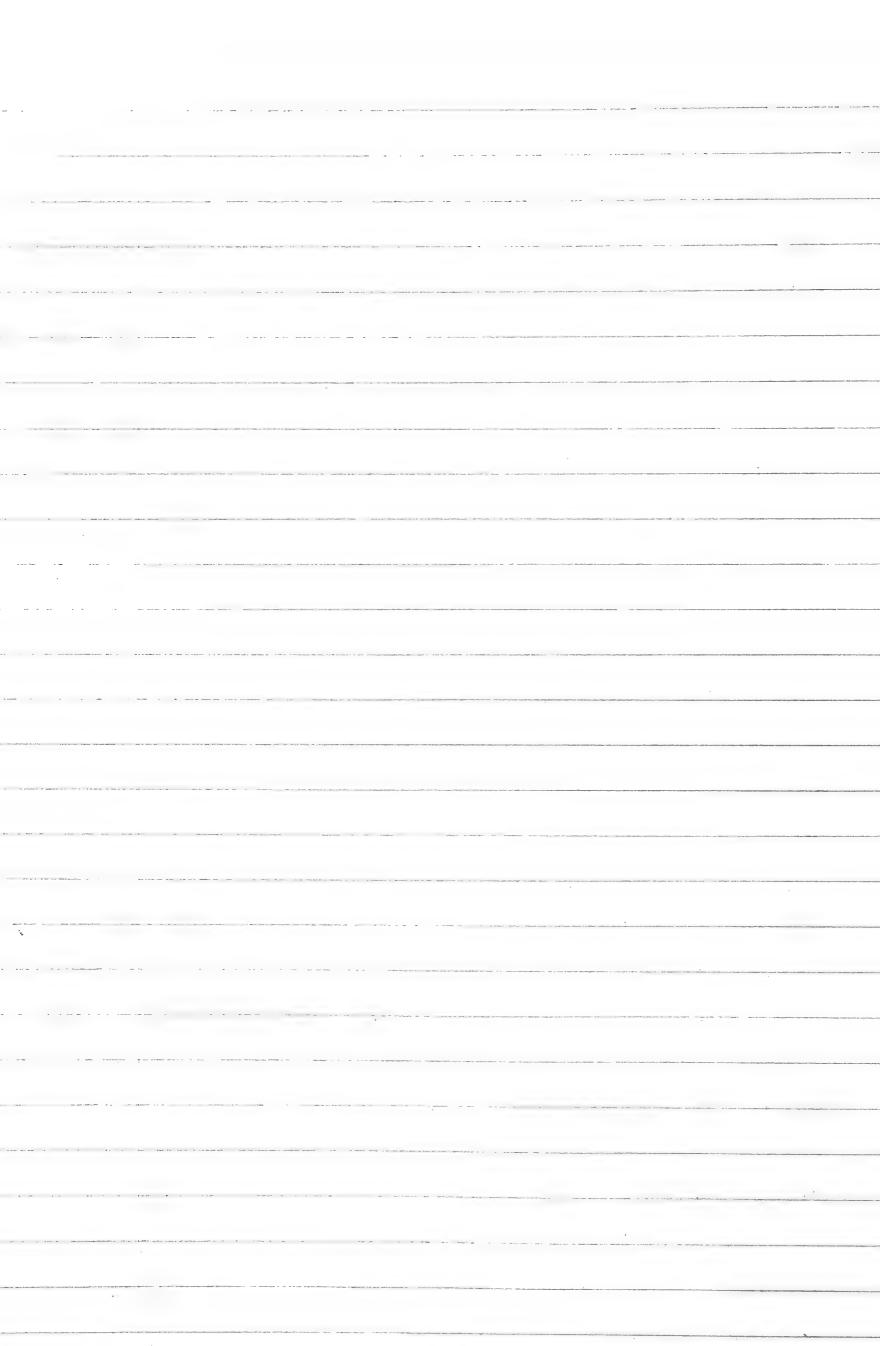


E- H.

Isla Boca Brava, Chiniqui, Panama 6 June 2002

Today was a slow start for all - slowest for Ryam who opted to stay home and nurse a not-two-serious cold. I set the video camera at SBEZ, hoping for some better-quality pictures of dancing for femilies; then I appear set hets at SBEI, targetting or AWP for removal to Isla San Jose. I did eventually catch AWP at nearly 5:00, and couldn't find a boat to take me anywhere trans eventually come back from checking the values" and very graciously took me to the mainland directly east of Boca Brava, It's a bit farther away than Linarte, but still very clave. We thought of keeping him in the cage overnight, but he was quite shocky and wasn't moving around much. He was perched on the lowest PVC Support beam of the case when I took him out, I be didn't resist at all. We did feed him some strailed banana mixed with water at 6:00 pm. When the banana water was dripped onto his beak, he drank it bairly readily.

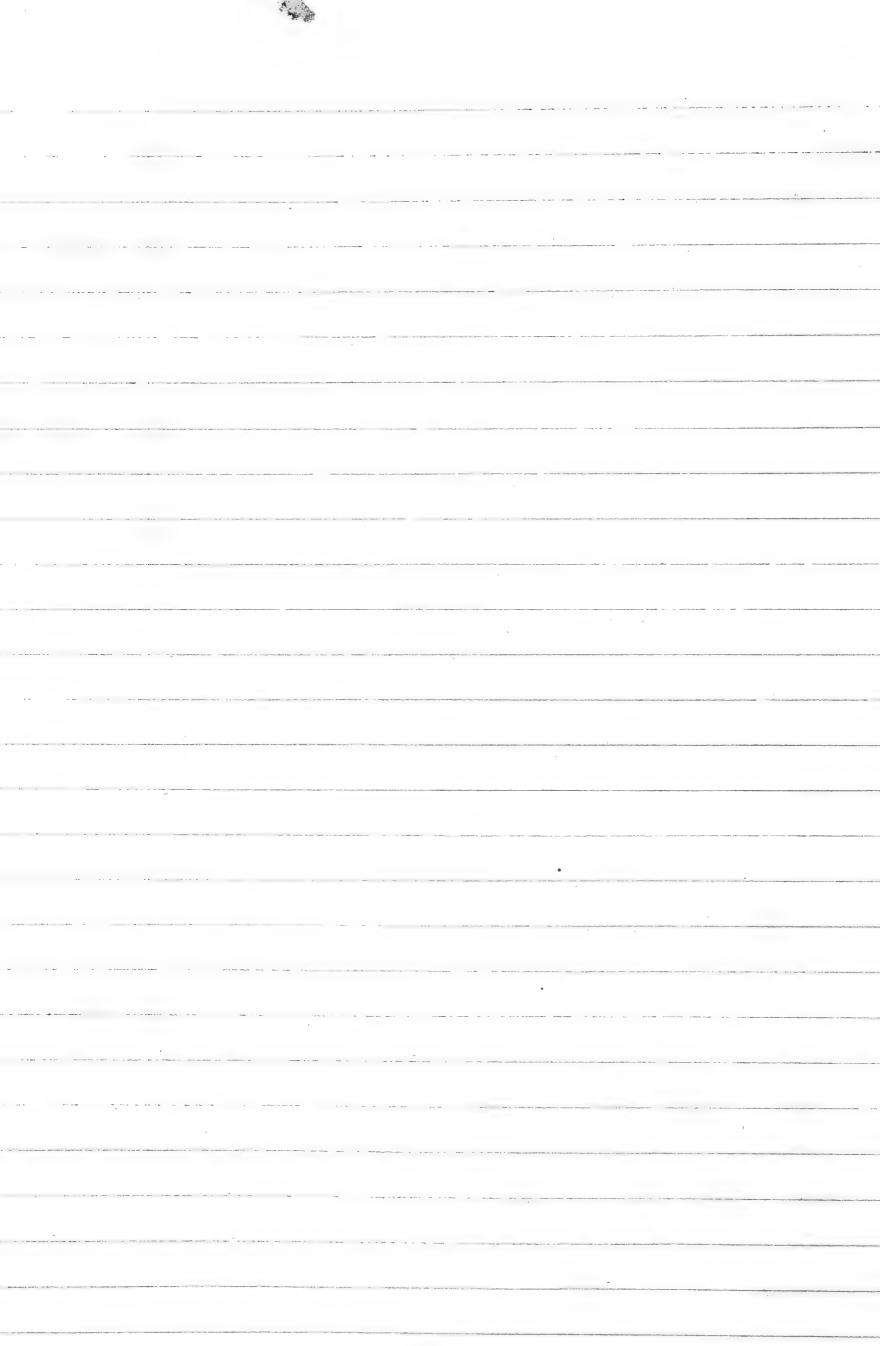
Other highlights for today: I found two intact eggs below the entirely collapsed E-35 hest. I intended to blow out the



Isla Boca Brava, Chiriquí, Panamá June, contents and accession them in the egg out collection, but I promptly left them (and nest E-26) near SBEI in my haste to get AWP back to the cabañas. There were large cat points in the dirt on frank's trick hood this morning. I took 2 photographs. According to the From Reid book, they are most likely

A flycatcher jost flew into the ranche after flailing against my plastic wall for 40 seconds or So. He circled the light several times, then blew out. Grey head & chast, beak black, breast yellowish, whitish on & secondaries. I couldn't see how wide his beak was. He was slightly larger than a yellow-green vires.

7 April 2002
The beta of the freshly-removed alpha (AWP) was observed doing a sole display for a female today. It was interrepted by Boxer, who galloped through the middle of everything, of course. The data is on Ryan's late-morning watch. It threatened rain all afternoon, but nothing hoppened. Julie Saw a copulation at MAN, with a 2-8 lisplay by RGY and an unbD4.



E.H.

2002

10 June 2002

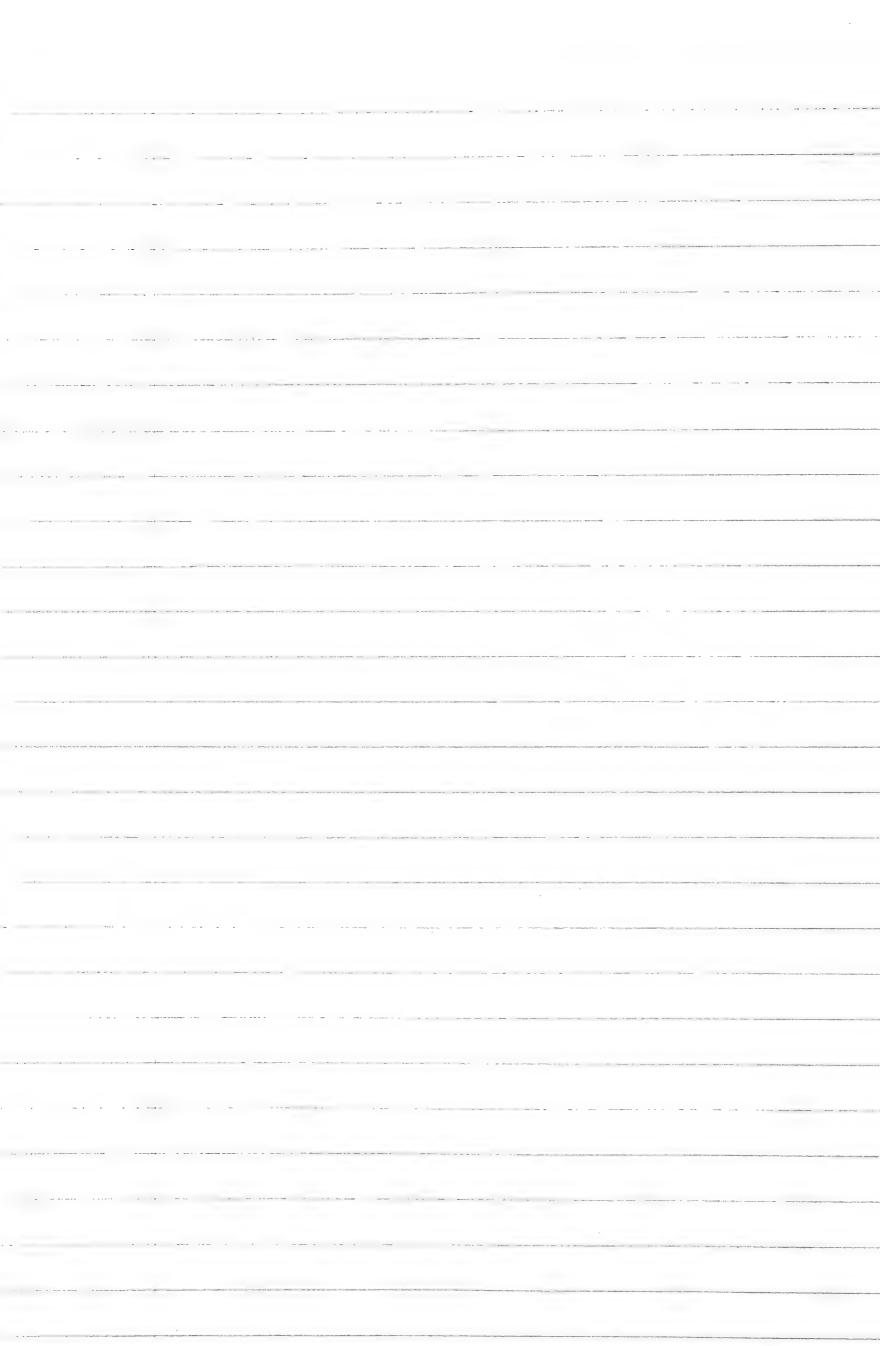
De 2002

Louis 2002

I did without today, including one at WELY where I'm hopis for some more definitive 9/8 evidence so that the perch can be included in the 9 remaind experiment. I found two wests with eggs back in the MAN area - we're just about at the point where eggs laid will not batch before we leave the study site on July 1. Julie found a nest at OCV with 2 eggs, as well, Everyone is fired.

11 June 2002

observations at ACA4, SBE1 (the correct of removal sites) and SNK. (where I'm hoping to do the next removal...?) Nothing very exciting was going on in any of those places. I'm worried about includy SNK in the removal experiment because the beta partner remains unclear. BSI is the clear alpha, but displays with at least 2 and for females (WRR is most common, but has only been seen 2x) and QR's with 4-5. I make the prime suspect, though if any of the others is how it still may be a benefit of op attendance to corperation.



June

12 April 2002

Isla Boca Brava, Chiniqui, Panana

I took the day off" to do data entry t

ty to think about the speciming ISBE poster.

The data has come a long every, but the poster

is still logging. Everyone clae did watches, which
were particularly slow, and the day was cut

short by vain in the afternoon.

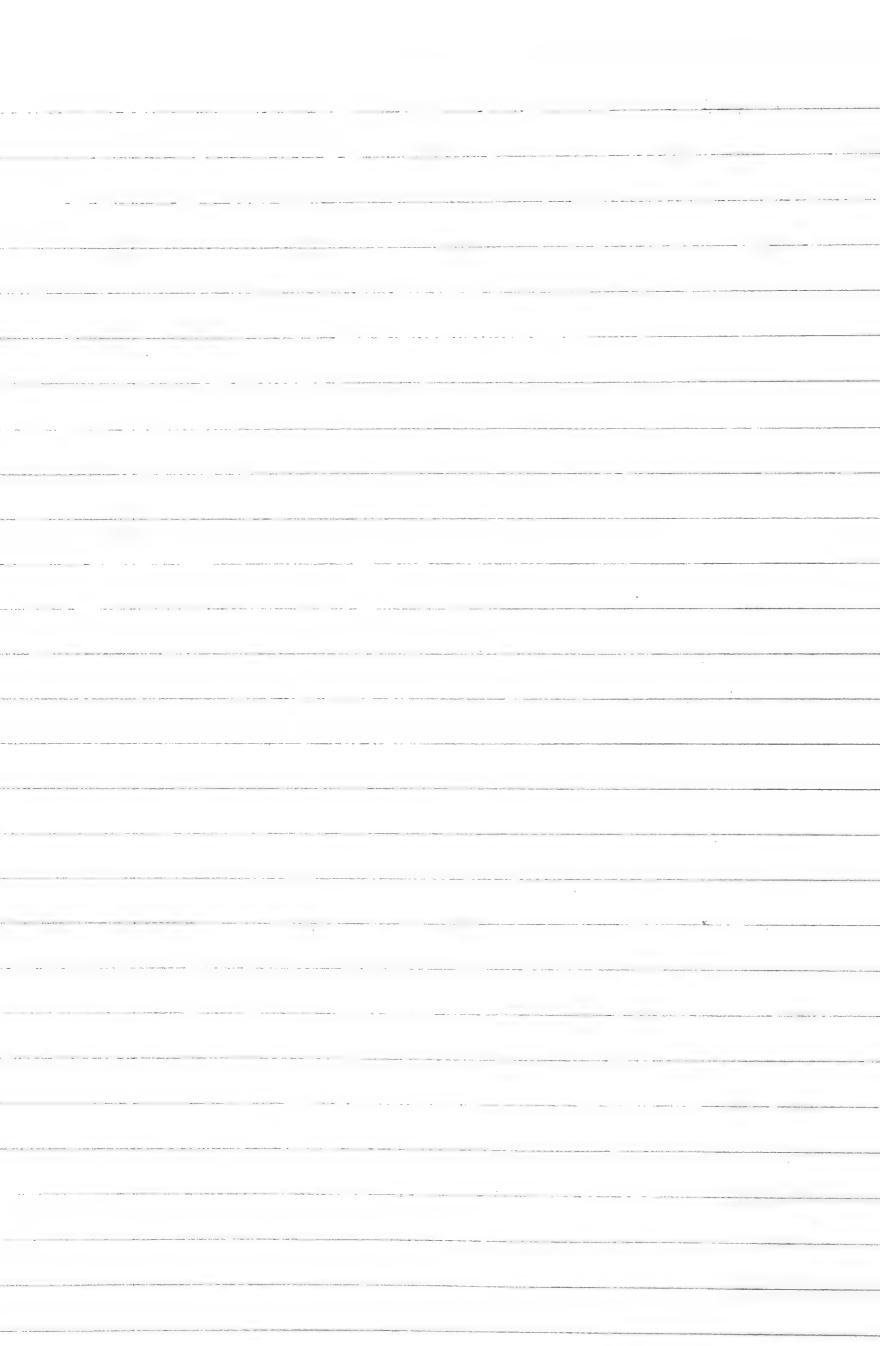
13 June 2002

I think it's a sign that I've become delisional
about how much time I have lebt here that I

recorded yesterday's date as the 12th of April. I

set nets at SNK to try to venuove BSY for our a-removal experiment. AWW is 5till actively rolling SBE1, and Becca saw him dance for a female with another male but missed the other male's bands. The lek of Little Hermits at inbetween SNK and CCL is in till swing, all of a sudden. Julie mentioned thinking that she heard them a few days ago. It grew very dark and storning in the late afternoon, but merely sprinkled until 8:00pm, Eta when the downpour began. In all, we got 244" of rain. We all went to Meglun's house in Boca Chica for dinner and Ethanks only to the goodness of Elvy made it back to the island to sleep. (YS (SLTC) chick from this year mobbed me when I

caught wow (TC) at SNK



E.H. 2002

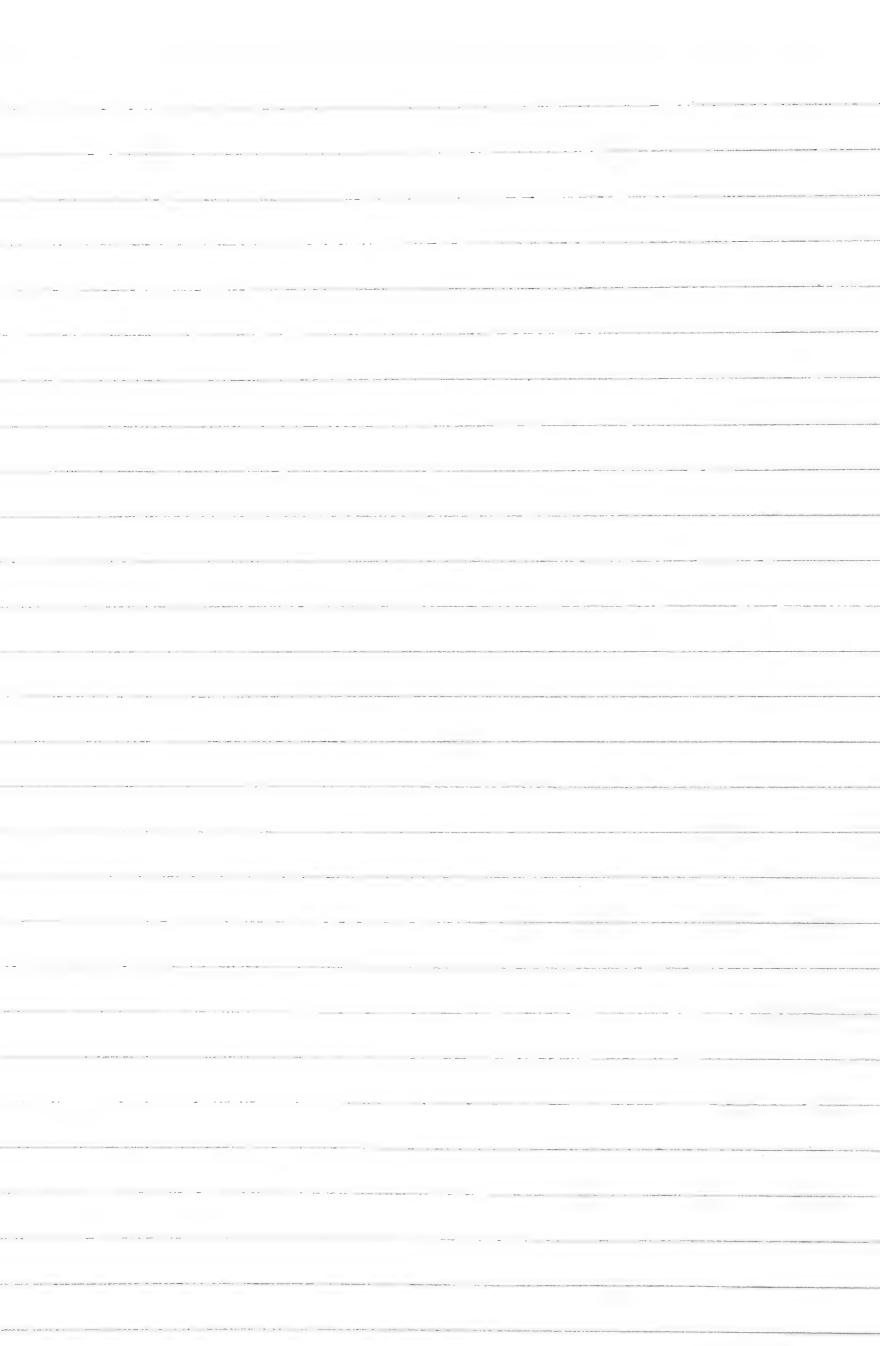
Isla Boca Brava, Chinqui, Panama'.
14 June 2002

I wetted for BSY at SNK today, though with only two 6m nets. There went many places where that bird flies — as attested by his long stint of unbandedness. I'm having a hard time bolancing the apposing pulls of removing alpha males, catching unb Dh's while I can, and doing observations to try to boost the sample size just a little more.

Masked Fitzvery have been active on the island lately. Becca saw them at GULZ in the last week, and I've heard them several times there and in other parts of the Study site.

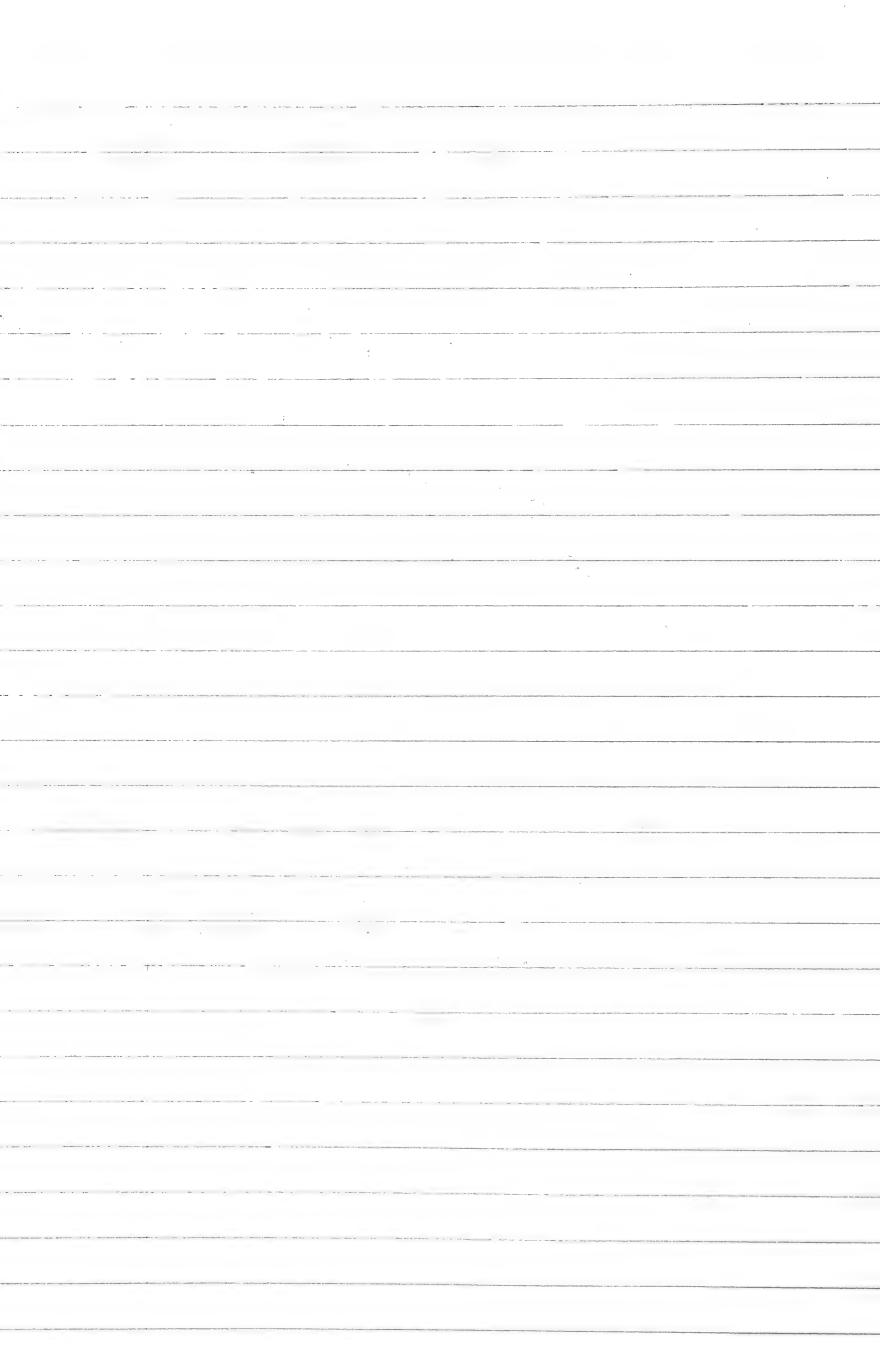
A Grey-nesked Woodrail walked by me alent 15 feet away as I was waiting to check bets at SNK. His legs & eyes were both a stuningly bright red. I also suprised a Little Hermit who blew to his diplay perch four feet owny from me as I was nest-searching. I broze and he bluffed out his feather, shock out his torque repeated, & bolbed his tail (but direkt sing). Finally I had to continue & held left in great alarm.

I staked nest E-29 and the female is an UNS SLTC.



Journal 2002 nest #s refer to 2002 nest codes; for species ID Miscellaneous Vegetation Samples if possible Nest B-9; small tree - least in clusters at the ends of stems - composite leares (altruste leaflets) - Woody Stem - 7 paired sets object lets w/a terminal unpaired one leaf attachments - leaflets get larger rotate wound 1/8th 5? Center stem in 1/8th 5? toward tip of lead Some leads had Gor 8 leaflets leaflets have a wavy edge veins are simple: (hard to see on the leaf) pointed

E. H.

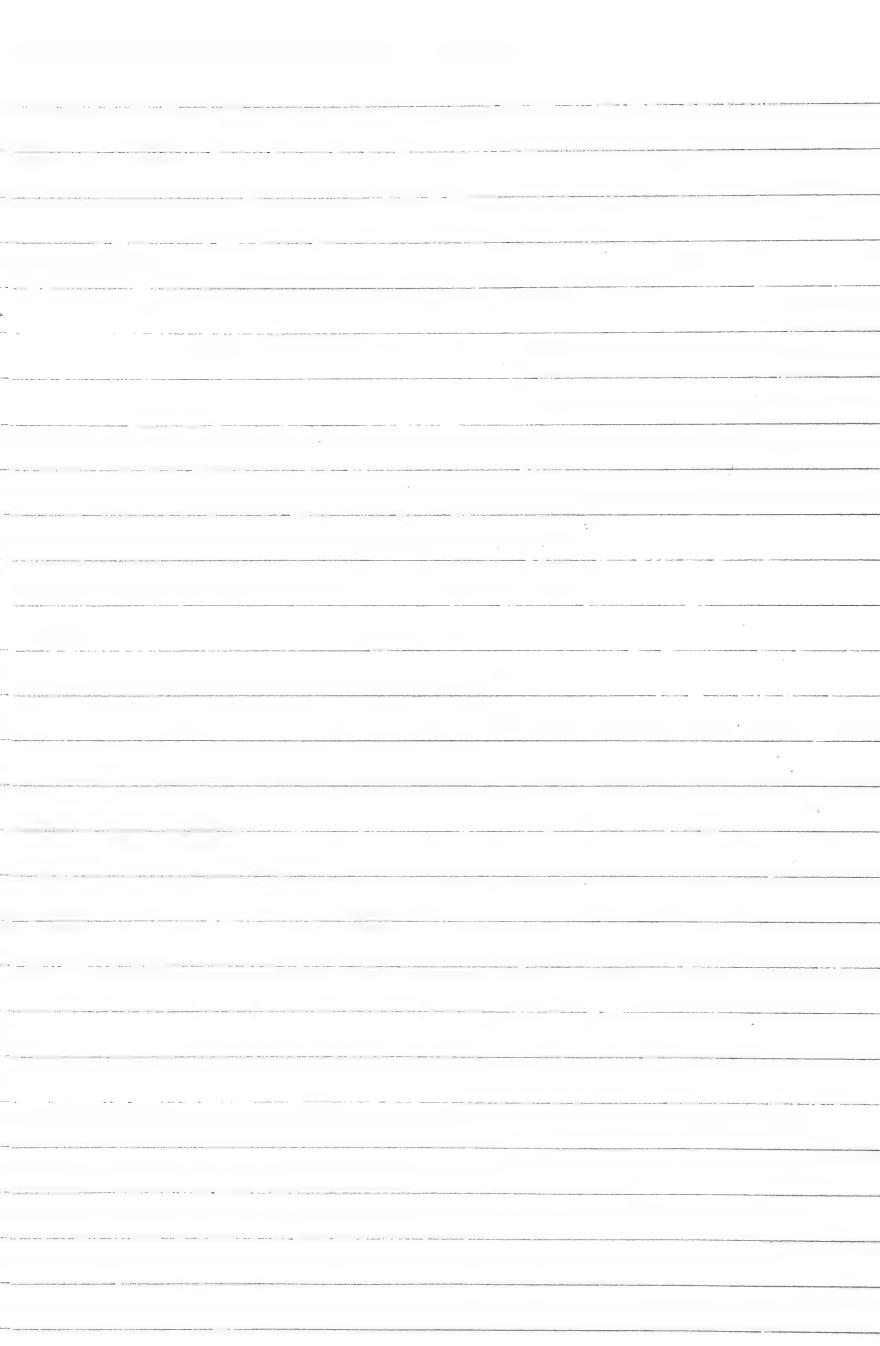


- new leaves Buzzy - leaves attach opposite - old leaves not glossy - very slightly bozzy? - Girely veited BUZZZ Nore dansp net as knolly as a piper, but leaf scars closer together toward the trunk. 2 leaves soured

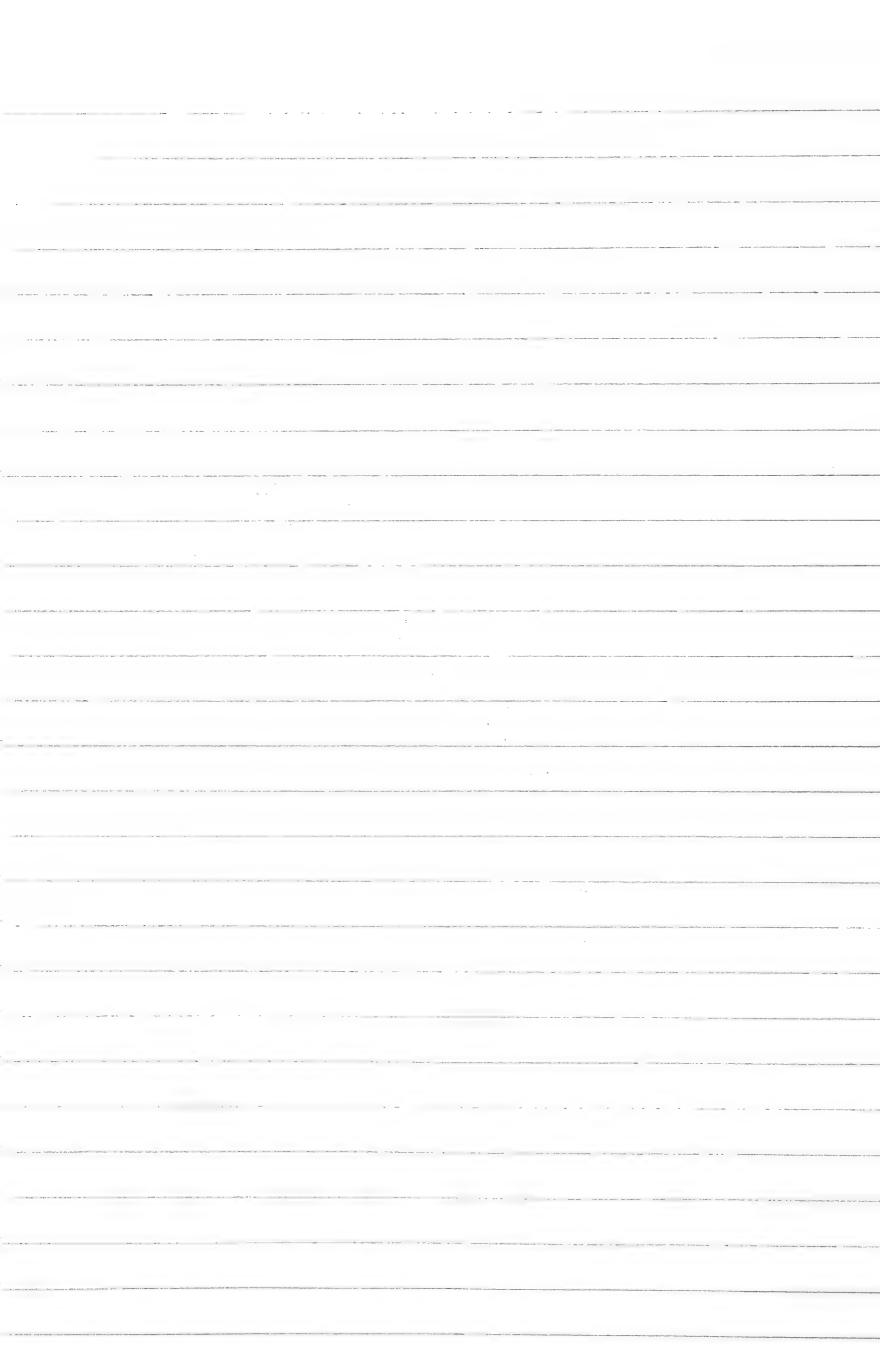
Journal

E.H.

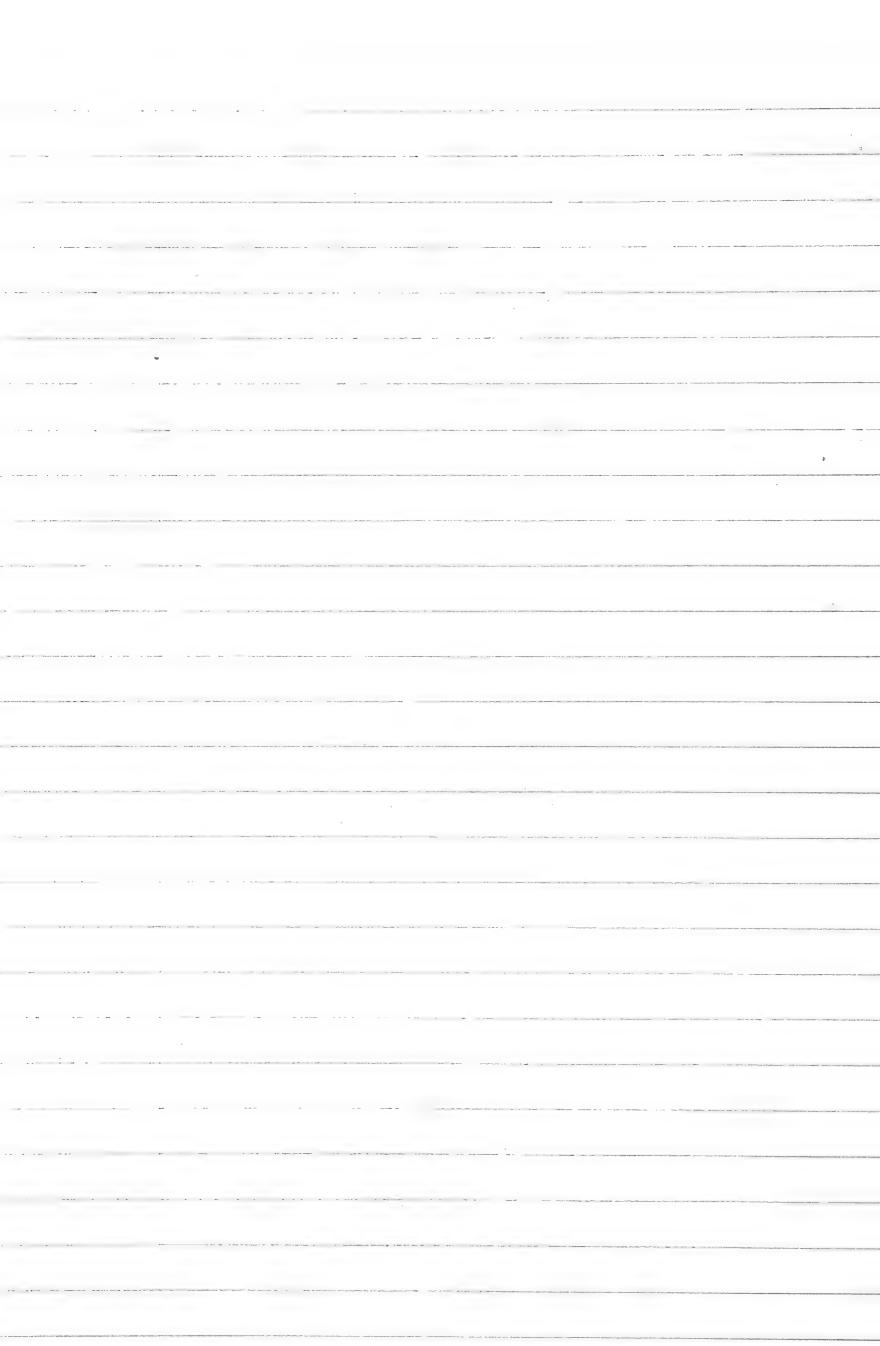
2002



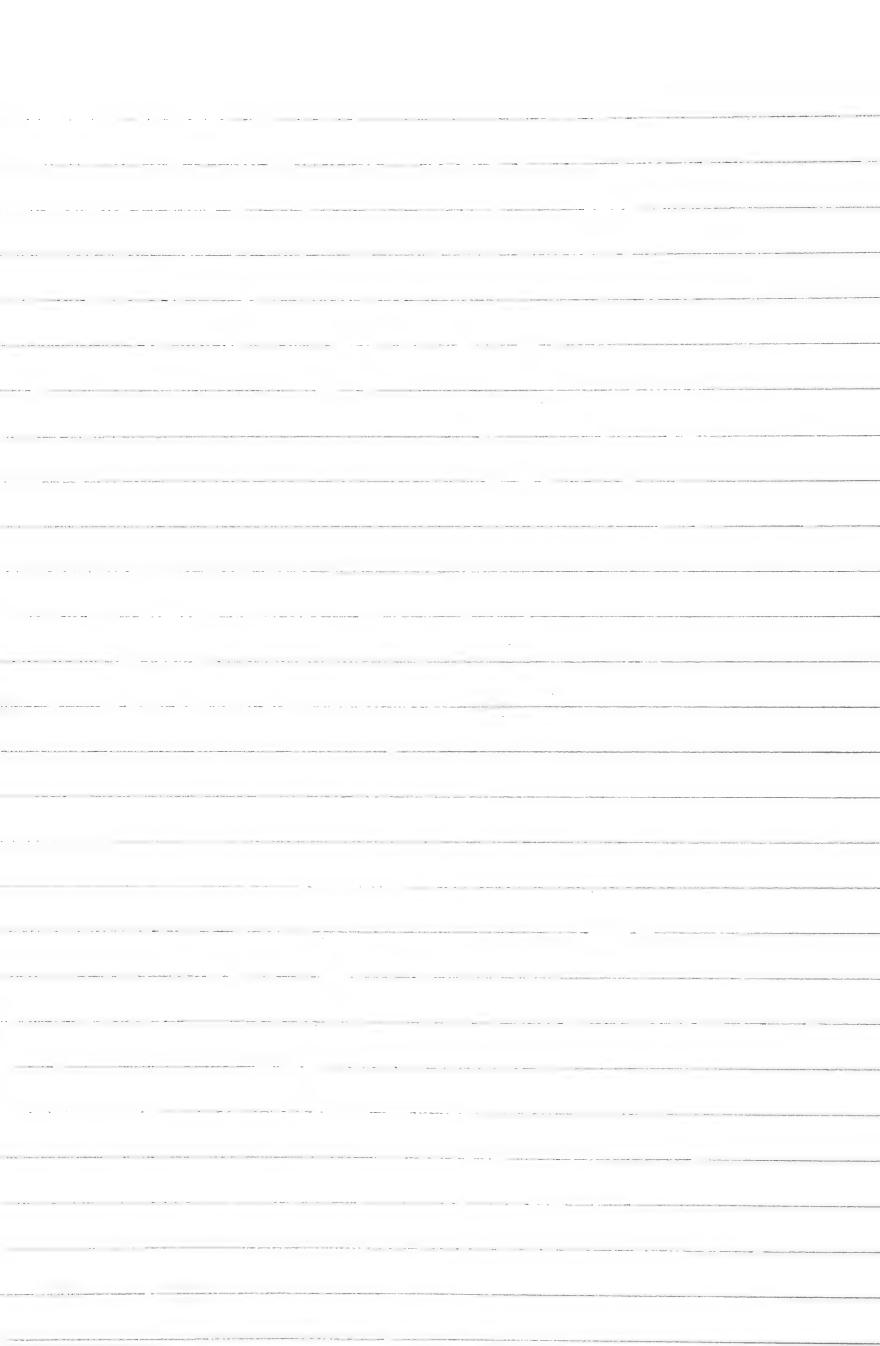
E.H. B-AC - leaves in groups of 3 on lang stalls - thickened base of each leaf attachment and each stalk attachment; leaf sl. overlays Strongly veined; ver attach alternately to midnis no outer line of veins along edge bleef leaves are Sousoth, slightly glossy - bark rough, ridged almost leaves in 3 (as an left) except this one Suplies - the big tree at SNX is of this species

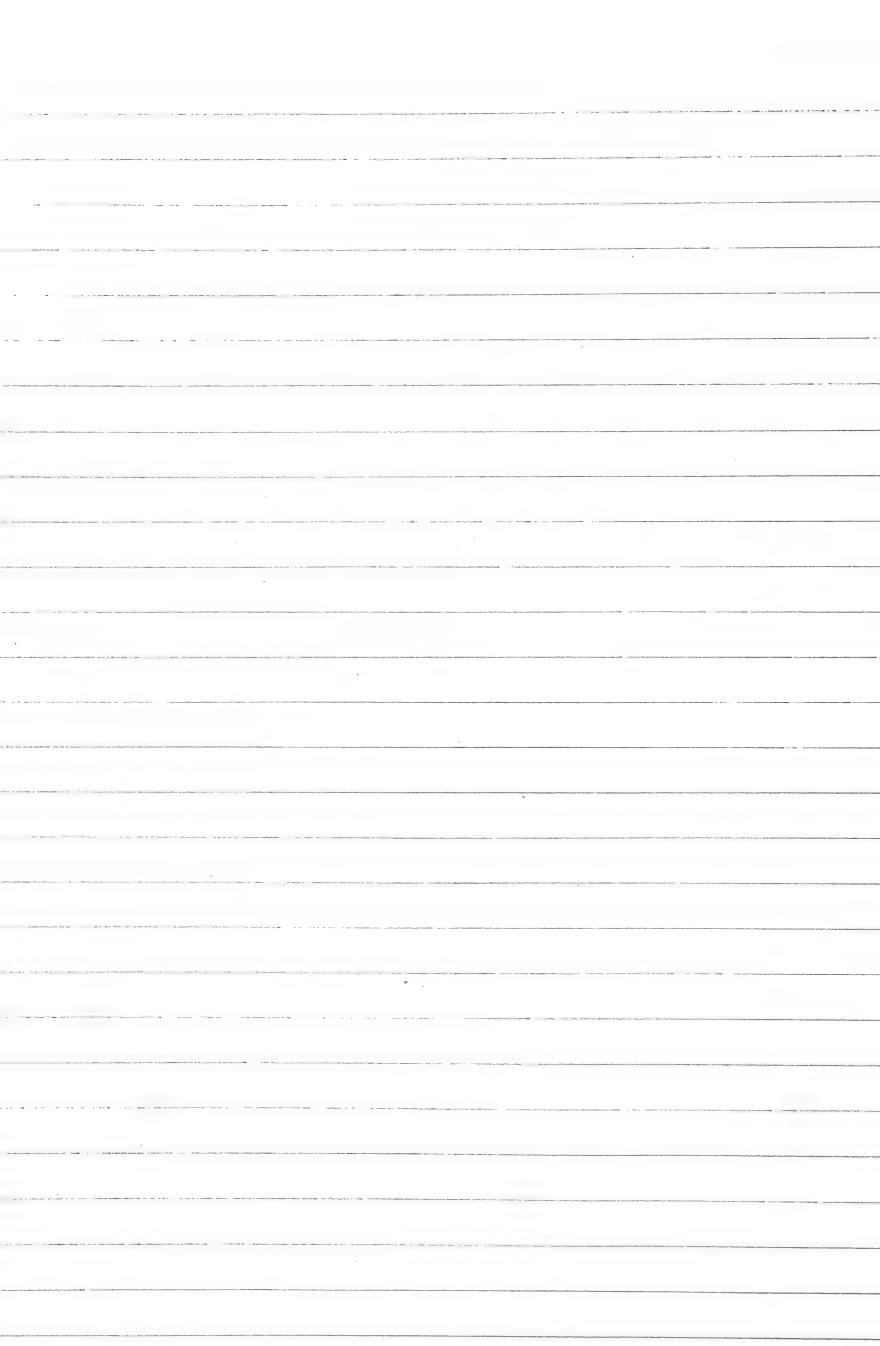


E.H.)oomal 2002 - loave opposite, lobe-like toward distal leaves in sets of 4 proximal ones Smaller 2 3/21 - leaf tips are a blunt point - thickened leaf attachments, but not so much as B-AC species - veins are alternate, slightly irregular

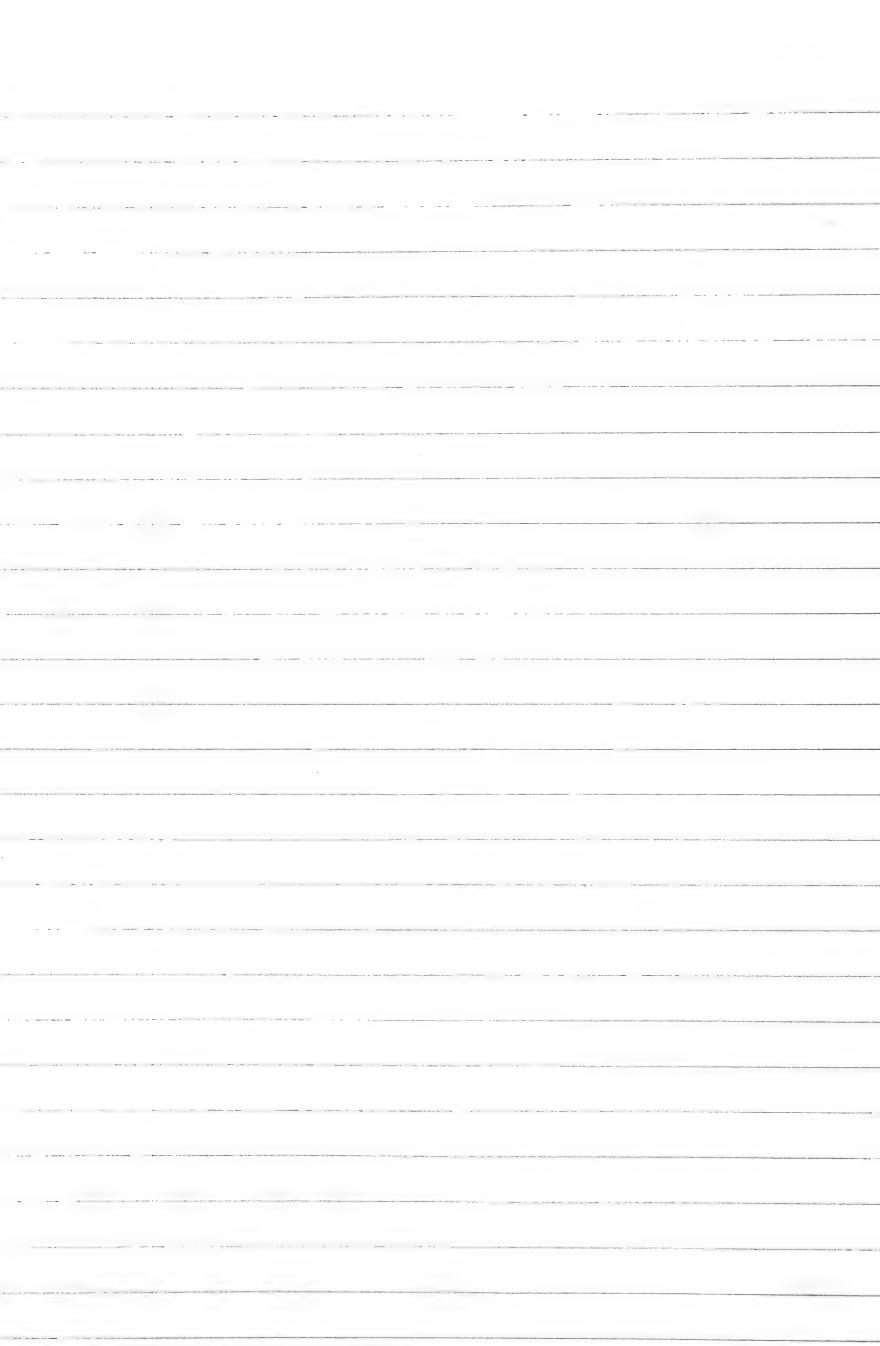


E.H. 2002 Nest J-2, B-H, B-8 - leaver forzag - Sure I ID'ed this one at STRI in 2000. - base of leaf continues on the top of the midrip as it connects to the stem - clusters of leaves - leaf scars rotate be turn around stem each set of leaves leaves alternate

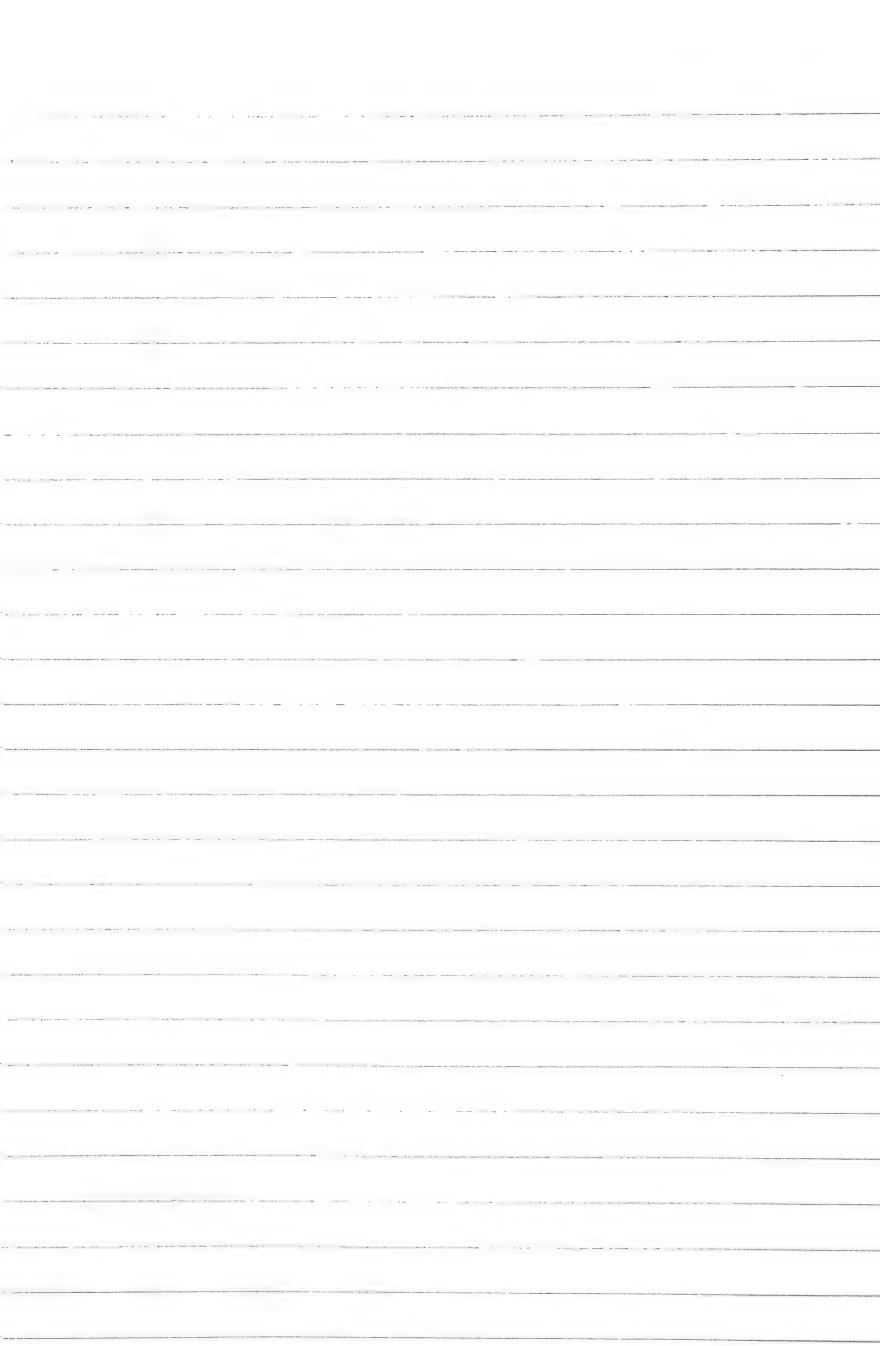




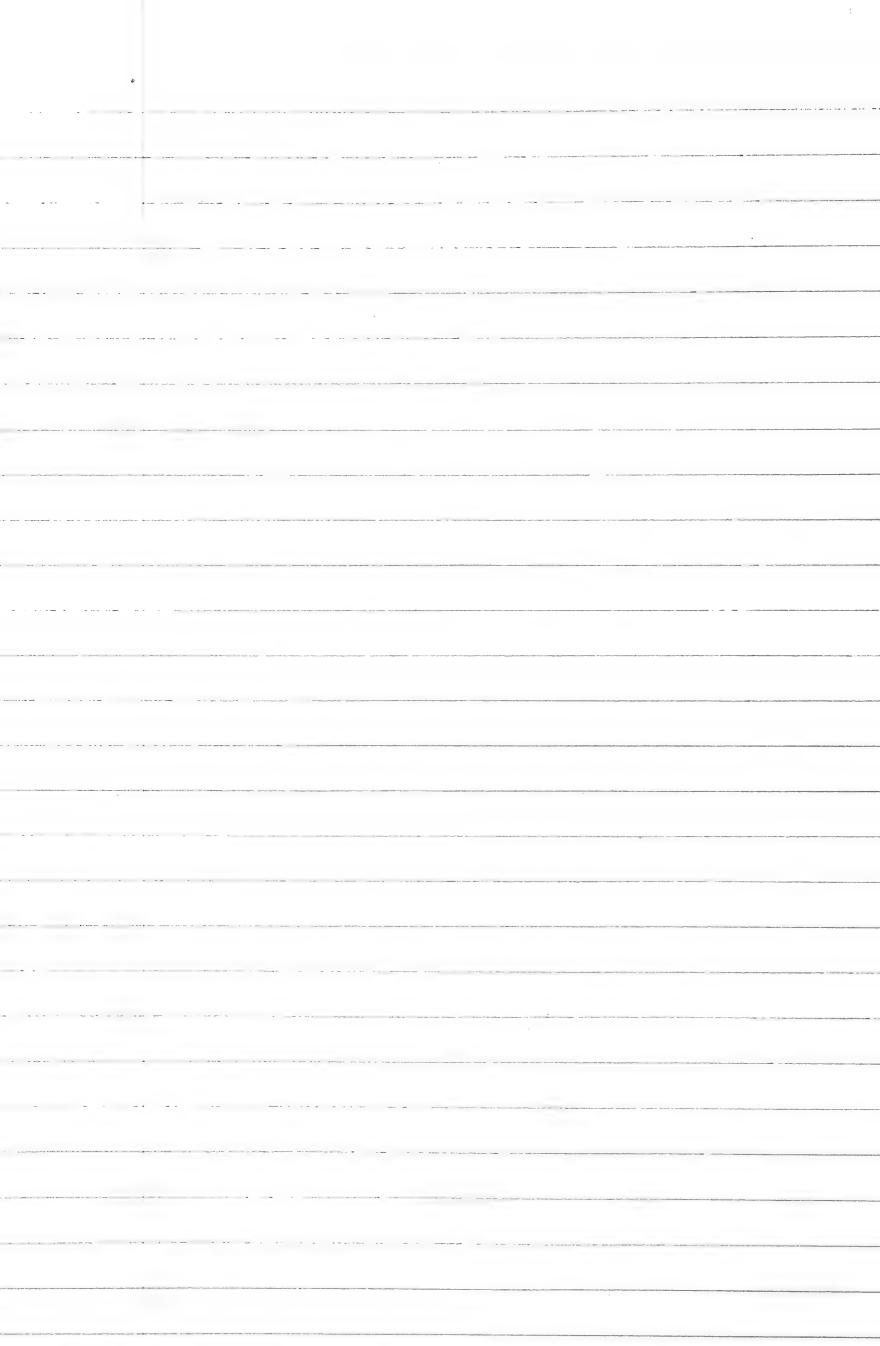
E.H. 2002 B-18, J-Q greenish, ven stright! - thickened buse of each compound leaf - raised veins on underside of leaves - leuves apposite - Slight point on end of leaves -levre ~ 4-84 多

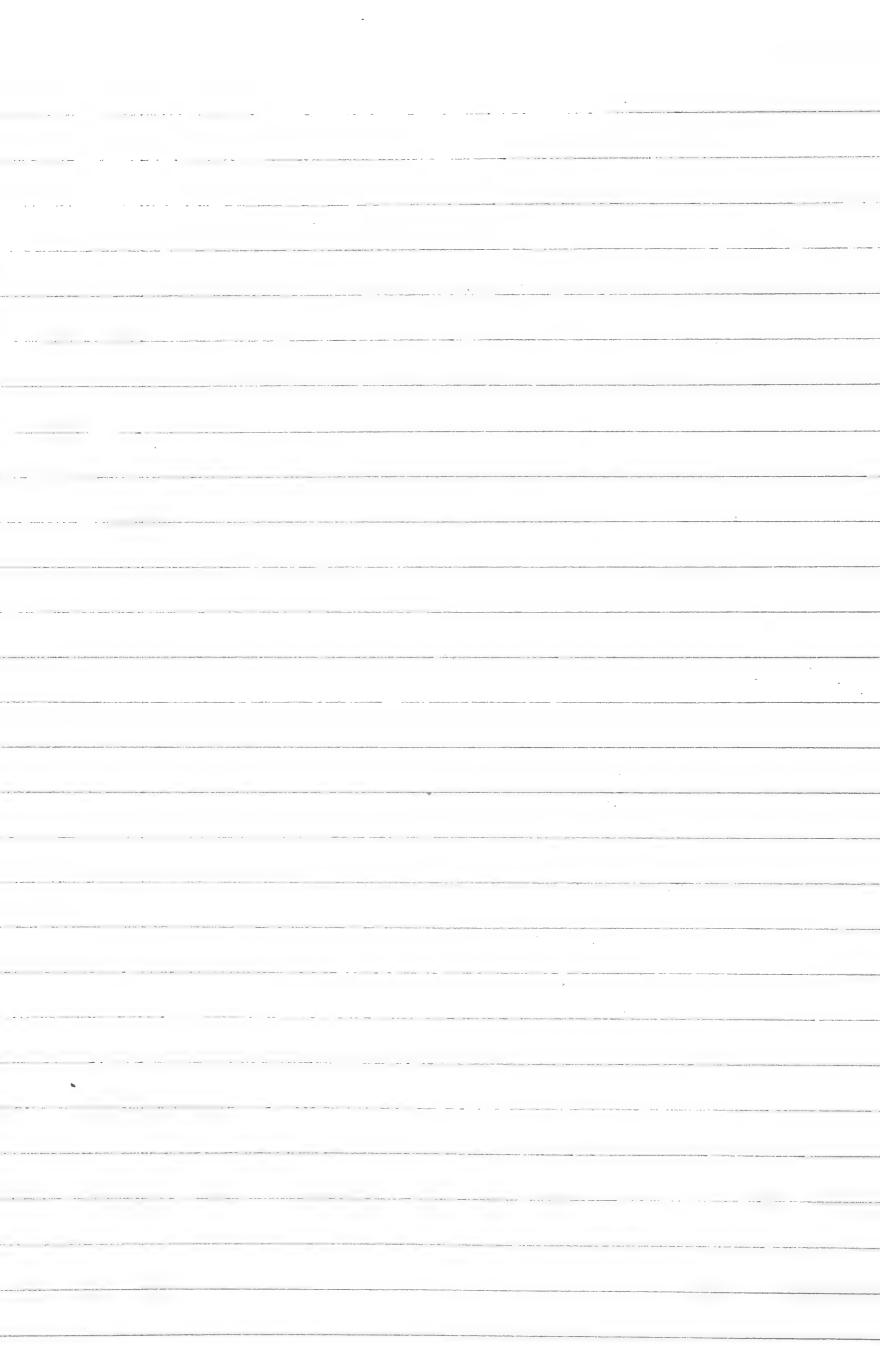


) ournal E.H. Similar to 3-18 species, but 1. vuderside of leaves Sandpypen 2. leaf petitle is a thickened & dark 5. Slightly upcorred 3 midnis is well-defined & varised above leaf surface, especially at the base of the Veins similar - both in pattern + the fact that they're raised on the underside of the leaf leaves smooth on top, dk green

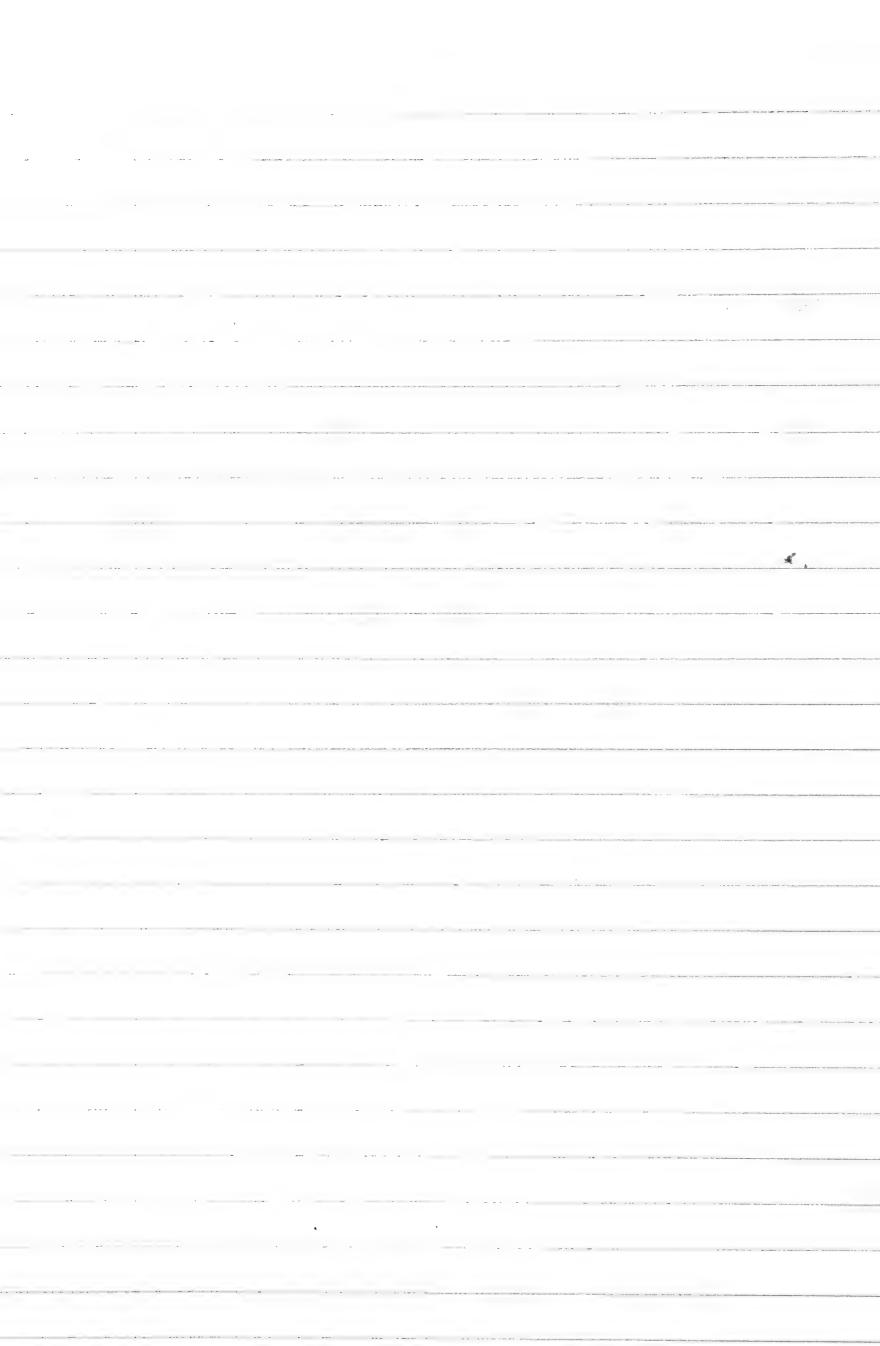


E.H 2002 3-3 - Similar to sp3, but 1) lacks the gland spots 2) leaves are not so glessy wavy edge to leaf, but smoth edge leaves alterate, many on one stem pointed tip - A water-loving houseplant sort of thing; philadendon relative? - routing from broken-off Stem





Journal E.H. 2002 E-31 - leaves have a Slightly minty smell - Smooth edge, wavy (like sp 3) Bull sized leaves ven regula - + Evenly-popertioned. - leaves alternate, rotating attentalment 90; each ton ground the stem hard to find Characters on this are!



	Display Per	thes 2002	
#Times Observed	3×/wk	2×/wk	misc-as possible
Perches	I. WEL3	1. CCL 5	?CASI
	2. SBE1	2. BTE1	Lot 1
	3. SBE2	3. WELY	DSNK1
	4. CCLI	EN. MANI	CCL 2(?)
	s. Cely	5. TCJ2	FNR/LHL 1
	6. (SBE3)	6. TCJ1	TCJ3
	7. SLN I		*SPY 1
	8. ACA 4		PHTI
	9. FBE1/2		BTE 3
	10. BTR 3		Unnamed + BRI
	11. GULY		& vunained - new 2011
	12. EDM		A unnamid - new MAN
	BR12	,	the third of
	# = vu	6DM present pres	ransle Grande
		5 DM confirmed is	
	Randomized	renoval experiment	perdres:
		FBE 1/2	
		3r12	
	3. 4	IEL3	
	٧. ٥		
		BTR	
	•	tcJ1	*
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			

 E. H. DoVal Field Notes 2003

General Index

1) Catalog EHD 021-022

2) Journal

DuVal, E.H. 2003

27 April 2003 Isla Boca Brava - WELY display area about 1 km from the Eastern tip of the island; Gulf of Chiriqui; Chiriqui Province, Republic of Panama Individual # 178, YAR - definitive adult make plumage EHD 021 16.0g, adult skull, left testis 7.0mm x 5.0mm right testis 5.8 mm x 4.5 mm. Stomach mostly empty, with some purplish-green fruit pulp. Alpha male on the "WELY" display territory. Collected as part of alpha male removal experiment. Captured in a grove of cereropia trees near the display area. Preserved tissue samples, syrinx, testes, and some skeletal material. 1 May 2003 0.5 km West of Eastern tip of Isla Boca Brava, Gulf of Chinqui, Chinqui Province Republic of Panama; CCL 5 display area Individual # 067 BYY - definitive adult make plumage EHD 022 15.0g, adult skull, fat 0, no molt, cloacal probberance = 1 Right testis: 3.7 mm * 4.0mm - grey Left testis: 6.7 mm × 4.0mm - white 3 seeds of Davilla kunthii in Stomach. First banded in 1999 (in DM plumage, = 7+ years old); Alpha unle at CCL5 display area in 2003. Collected tissue (muscle, heart, liver, kidney) as well as Syrinx, rt. testis, and gastrointestinal tract with contents. + skeleten

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DoVal, Journal E.H. 2003 Isla Boca Brava, Chiniqui, Panama 10 April 2003 Finally, after several days of netting, I captured BSY (DM), the alpha male at SNK display area. I relocated him to Isla Palenke, which is as far as I could convince the boat driver to take me for \$10. He flew away Strongly.

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2003

Isla Boca Brava, Chinqui, Panamá

11 April 2003 I watched the SNK display area for 2 hours in the morning and one in the afternoon to observe the aftermath of removing the alpha, BSY. The area was very very silent and I saw few manaking. (@10:50am) Shortly into my first watch, though, I noticed a Coral suche in a free about 20 meters away. It was lying completely still and draped over the trunk of a leaning tree. I investigated more closely and found that its head was severed and completely gone. The blood was still fresh on the wound, and two marks (like puncture wounds, but visible only because of the puckering of the skin, not because of any hole or blood) were on the side about 6" apart. The entire snake was about 1/2 feet long and 12 cm in diameter. (# the diameter of my index finger). As I investigated the snake, a Laughing Falcon "laughed" very nearby - about 20 m to the South. It vocalized a little more and then flew off, to the North. I videoed the snake, both to get a better ID of the species and to see if Tabitha Bruce of Cornell University can use it in her research on coral snake depredation by laughing Falcons. I finished my watch and returned to the snake ~ 1/2 hours take after I initially locked it

over. The blood was congented and drying at the

DuVal, Journal E.H. 2003 Isla Boca Brava, Chiriqui, Panama head. I focused the video camera on the 11 April tree and snake and left it recording as I went to lunch at 12:30 pm. At 1:08 pm. the & Laughing Falcen was recorded returning to the coral snake, grasping it with both feet, and Blying off to the Southwest. The rest of the day was largely comprised of nest work. I staked E-21 and observed ARV(G) feeding the one ready - to fledge chick. I bled and banded the new chicks that Julie found yesterday - I'm assuming that's)-15? 7 PRW(G) mobbed me as I did so, confirming the bands Julie saw gesterday. The E- nest by BTR3 dance perch has hatched and has two 3-d. old chicks (no pin, dry fuzz on head + Sack, about I' long), but when I staked it the found sat on the nest with her back to me and left when I tried to change position. My nest at SBEZ hatched and has one chick ~ 21. dd. The air bubble is the remaining egg moves freely & the egg is dark probably not going to hatch. OPA (G) mobbed me, flottering ~ 6" of the ground and "falling" in a flailing distraction flight from higher perches as I bled her chick. Only chicks' mothers ever go to quite such lengths in mobbin, & as I had suspected OPA anyway I feel confident in Saying she's the mother.

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Dolal, Journal E. H. 2003 Isla Boca Brava, Chiriqui, Pamqama 11 April At 1615 I saw a large (~ Y'log) black snake at SNK dp I during my afternoon watch. He was greenish-black with a small head and a light whitish underbelly from his throat/chin all along his body. 12 April 2003 We got a slow start this morning because two departing tourists - Haine from Partigal and Marco from Quebec - were trying to converse and be friendly. That just doesn't go over well before 7:00 am

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DuVal Journal E. H. 2003 Isla Boca Prava Chinqui Panama 15 April 2003 I continued to not at TCJ2 today to venove RGR (DM), the alpha. Julie helped me set one new net in the morning (as he seemed to know where the other three are) and then she set off to SNK to continue observing at our other removal site. _ netted until 11:30 Catching only one manalein but 4 Swains n's Thrishes. Two of those SWTH's had fut scores of less than two - the others were more appropriately prepared for migration, with fat overflowing their forcular pits. While netting I took GPS coordinates on my most recent nests and dissected a manakin nest juto its companent layers, as M. toster Suggested could be done. Fern ("vihe forn") leaves held together with spiclerwell Comprised the orter layer 2-5 mm wide biber strips were the middle layer, + the lining was of very line twizs leaf midribs, and rhizomorphs. After lunch I staked nests and bled chicks at the four BIR nests that presently have chicks. I got the

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Duval Journal E.H. Isla Boca Brava Chiniqui, Panama
femele for one-she mobbed me using the 2063 15 April "injured female" strategy where she flatters falls diagonally away from the vest, aften fluttering through low bushes for some time when she gets ~ I foot of the ground. She paises for 5-60 sec., then flies back rapidly to the same or a different high peach to see if I'm still near the nest. All of this is accompanied by much wing-flicking. Nest E-13 (7=BOB) has one chick several days old and one egg. I noticed that the egg had two small holes in the more rounded end and I couldn't hear the typical tap-tap-tap of a hatching manaking within. So I carefully broke open the shell to see if the contents were developed. There was a fullyformed chick inside, dead and starting to decompose. Where did the holes Come from? Could the mother have reduced her own board by pecking it herself? A+ 18:00 I caught RGR (DM), and I took a good-sized homene sample from him immediately.

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DuVal, E.H.	Journal
2003	Isla Boca Brava, Chiniqui Prov., Panamá 18 April 2003
	Today was almost completely overcast
	few moments. Lance-tailed manahins all
	over the study site were singing thair hearts out.

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Du Val, Soumal E.H. 2003 Isla Boca Brava, Chiriqui Prov., Panamá
22 April 2003 22 April 2003 I prepared for the next - last? - two alpha removals today. I made a list of the vine Cligible display areas and used the random subsampling bunction of JMP to choose my targets: WELY and ADS. A closer review of the WELY data sheets Showed that we aren't yet positive whether the alpha is YAR on WPA. I did a stow I-home watch there with no progress on that In the afternoon, Stomelands Started gathering and there was a light shower, after which the manakins were active all over the Study Site. I did a I-how watch at ADS and afterward saw Those males dance for a female truite. I put up one net for tomorrow. I also saw dancing for a female at FBE1/2 and Julie saw dancing for a famale at BTR in the of known. Last night was our first solid minstorm in a very long while. I estimate ± 3 /2 inch of rain fell in a short amount of time (<2 hrs). The whole day today was homid + overcast



Journal

Isla Boca Brava, Chiriqui Prov., Panama 30 April 2003 We went to David for the last time today and while there I sent a fax to Ibeliee ANAM (Kruskay de Mel and Emilia requesting export permits. I requested permission for 150 blood samples, two unde specimen, one female specimen, and tour nests. I left the restaurant phone number as a contact # in case there are problems, though I have little hope of receiving the message if it comes. I submitted an abstract for the July ABS meeting in Boise, ID and Sent on enoil to Biff (Eldredge) Berningham asking for someone to contact about identifying plant specimens in the STRI herbarium when we pass through Panamá City on May 14. When we got back to the restaurant, there was an insect invasion in progress. Clouds of flying and were circling the lights in the restaurant and they were in everyone's food hair clothes, drinks. A heap had formed Senceth the bus zapper and a tol of water left under a light was fully layered with auts. This is it response to yesterday's big rain, I quess - the rainy season has arrived!

Do Val, Lournal E. H. 2003 Isla Boca Brava, Chirizos Prov., Panama' Today started sunny and quickly became avecast, raining lightly (but not enough to send us home) at 9:00 Am. (< 1/16"). The weather good only cleared after about 9:30 until the day was bright and sunny again by noon. I was netting at CCL5 for the final alpha-male removal while I-lie did watches at many sites. I finally gave up the 4-male hunt at ADS, taking down the 2 remaining 6th nots that were there. As I set one of these near the latest CCL5 dance perch, B44 (DM) - corrent alpha - finally flew into the het across the gully. I took homme suples immediately (7 min after the net, 30 sec. to remove) and half an horn later, but his veins were damaged from the first bloodletting and the 30 min Sample is very small. I attempted + failed to take blood from the jugular vein, and then killed him by thorasic compression. I prepped him as a museum skin in the evening two nests have hatched in the TCJ5 area since we went to Pavid yesterday, and we Staked those to get female ID's without much luck (Julie saw - - Y around the nest)
The vireos by cabaña 1 fledged today and have bean noisily coming for food ever since. There's a large

Chick in the YGVI nest by LHL. The bug swarm continued at night

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Isla Boca Brava, Chirigui Prov., Panamá An inch of rain fell sterting at 4:00 pm, giving us a good reason to head back to the rancho and organize nest sheets before dinner. We're both soundly exhausted. BWG(DM), the Bat CCLS, binally showed up at a 2-hour watch there today. Thre have been basially no birds present since the or, BYY (DM), was removed and collected on May 1. I was beginning to think that no one would take over that site at all. So why are some sites immediately filled (WELY, SNK) and Some linger basically unclaimed (ccis, TCJ2)? BYY was an old alpha 19 of CCLY for CCL5 since 2000), and BWG was frequently alsent before he was removed as well. At lunch, a Panama Flycatches was Seen chasing and attacking a male and tenrale Red-legged Honeycreeper. The fly catcher actually bit one of the honey creeges in midair. This happened near the rocks on first beach. Maybe the fly catcher has a

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Isla Boca Brava, Chiniqui Prov., Panamá

9 May 2003

We started the day at the Western side of the field site, having spent last night at Christina's house (near the LOT display area) to care for her pets while she's in Panama City. The LOTs birds started duet singing at about 06:15 -a bit later than the EDM birds are starting these days, but it was a dark morning and LOTs; a dark site even on boght days.

In my first watch of the day, I saw WPA and town WRV dance for a female (unbanded) at WELYB. WPA did a solo diplay for the female, confirming that he has indeed taken over the alpha role in the wake of YAR's removal.

Journal

Isla Boca Brava, Chiriqui Prov., Panamá
10 May 2003

loday was cut by a minstorm that started at 4:30 pin and at 5:15, seems determined to drizzle into the evening. I had had not open for + 40 min at SPY, targetting the sole remaining territorial unb DM. He was around the nets and even seems cortabelle. I caught BWG, former beta at the CCL5 removal site, and now have a good blood hormone sample from him (9 days post-Maroval. Unfortunately I didn't get a sample the day I caught of Byy. Note that BWG is a second-year DM, and that WBR also took a young B upon losing his previous & to CRZ. Known-age Linds are ascending to positions of power ...

The most important note from today is
that during a one-how watch at FBE 2/1,
WAY and RYV (the usual sv or, respectively) did a

PF-2 for a female in the area (seen only as a
green blur) which separated into two separate

PF-1's. RYV retreated to FBE 2 dance

perch, ranging as far as the path that

runs in front of FBE1. He stayed high,

pipping at the average PF-1 rate (1 pip

every 4-6 sec.) and definitely seeming to

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Dulal, Journal E.H. Isla Boca Brava, Chiniqui Prov., Panama 10 May 2003 cont. p.2 2003 be courting a female. In the mean time, I could hear a similarly-paced series of pips from the FBE 3 area. After about 10-15min I roticed a DM doing a low SF-1 around FBE3 Frank; Break road dance perch FBEI. I saw no for the dance perch, but by the d's behavior I am very sure that one was present. Again, a green blur was seen blying from the area. The DM doing SF-1 was WAI (DM). WAY has assisted in 2-8 dances that progressed to 1-or displays, and he has consistently been beta - always RYV stayed with the

Dulal, Journal E.H. Isla Boca Brava, Chirqui Prov. Panami 10 may 2003 p.3 2003 Genale for solo display. But once at the beginning of this field season I dreved WAY displaying solo (SF-1) for a beaule who was on dance perch FBEI while RIV sat just a few feet from the dance perch, watching. This is unusual because WAY had previously land did again later) play the beta role for RYV at FBE 2, 3 Betas do not sit so close and observe & solo dance displays - the usually move some distance away (3) There was no two- or dance for this particular female. Do what's going on here? Is this a type of concession by RYU? Are the paired displays a sort of vent-paying by WHY? Does RYV never dence with Luty on FBE/dp as a beta (ie RYV leaves + WAY stays)? Is this a form of reciprocity? Certainly this wer RYV's territory long before WAY joined him. Is this the only pair of males that splits dance perches up between them within one tenton, yet maintains a partnership? There's potential for this situation at WELY, SBEI, & ADS-HEL This arrangement would make sense if cooperative display evolved from ancesters who only displayed congrentively at territory

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DuVal, Journal E. H. Isla Boca Brava, Chinqui Prov., Panama 10 May 2003 p. 4 2003 boundaries, like some Pipra. Hypothesis: Alpha-beta pair QR rogether to advertise the area, defend it & attact 74. Display together as necessary at the main dance perch, and the 9 only has access to females. I may or may not be allowed to do solo displays for 99 elsewhere in the Skey theory would predict that not all pairs of wales would share wating opportunities agrally. What is different about pairs that share vs. there that don't? Would expect sharing pairs to be less related than non-Sharing pairs. "Pair type" isn't a predictor of sharing (is it?) - RYV and WAY would be considered closely-bonded are are always Seen singing together, and regularly dance for females. How can I get more data on this? I need an army of people or vides comeras watching multiple perches in a given display area simultareously. Not all display areas seem to have multiple perclus. What makes the difference?

Isla Boca Brava, ChiMavi Prov., Panamá
10 May 2003 p. 5

Another interesting note from today is that I vie found a female sitting on her failed nest by the first beach road. The nest had two eggs some time ago, but the eggs disappeared and we expected nothing else to happen. It's not get known whether the female has laid on egg, and we have no way of knowing whether it was the same beaule active at that nest both times. This is the first time we have observed a female apparently re-using a nest, though in 2001 one of Etis Eric's SBE1 nests had a female who kept incubating" with no eggs in the nest - for two weeks.

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DoVal, Journal E.H. 2003 Isla Boca Brava, Chiriqui Prov., Panama 5 May 2003 The day started slightly overcast and the manahins were quite active. During a watch at TZJ5 (which abuts TZJ2, a remaral site), I recorded males YGR and YPB 10Ms) spending a fair amount of time at TCJ2, with some duet singing and even a dance in the presence of female R- (6). The female was not on the dance perch, but was clearly interested and sat on a branch about a foot above the perch, watching. This dance was an the standard TRJZ perch which we monitored earlier with the video camera. During this time AWA (OM), farmer B at TEDZ, was duetting with the alpha BAA (DM) at SBEZ, where Julie was doing a notch. AWA seems to be giving up any elain on the or position at TCJ2 in order to be pat SBEZ. Maybe he just didn't have or couldn't find a beta for 7212? BWG was seen again at CCL5 (the last of removal site) and seems to be slowly testing over that area I found a nest with eggs right by the rocks in the middle of the first beach, and when I flushed the female (with difficulty) it trongs out to be SOB, a chick from 2001 from a next out in the MAN area. If the eggs don't hatch by 3/13 I'll collect one.



Du Val Journal E. H. San Jose, y Bolaños 2003 Islas Boca Brava Chiriqui Prov., Panama + May 2003 Clear and sunny morning: the manahim were relatively quiet as we walked out to Christina's house to get house-sitting instructions at 07:00. loday was our first and last twe day of this field season. I did a half-horn watch at WELY just to not let everything slide, and then declared today "employee appreciation day": we went with a group of tourists to snorkel at Isla Bolaños. On the way there, Elvy drave us past the small hearby island that vooken. A black volture roosts or nests in a small cave on the East side of the island, and jovenille ibis were everywhere. Several Magnificent trigatelieds also rested on rearby rocks or hovered over the colony. There were certainly more than 300 white I bis present, and perhaps as many as 500. On Bolgñes I didn't bird much but did see Bananquits in the high coconut palms and a Tanager in the understory. I heard no Lance - tailed Manating, confirming my experience in previous years - I don't believe there is a population on Elaños. On the way home, we stopped for an how at Isla San José where two of the

Do Val, Journal

Isla Boca Brava, Chinqui Prov., Panama

7 May, ant. E. H. 2003 removed alphas had been released. Julie and I hiked up from the Southern Sandy beach until we heard lance Tailed Manakin vocalizations to the West. We followed them and found two unbanded definitive-plumage males who vesponded readily to my mimicked downwhistle and who came quite close. The habitat on San Jose is at a much more developed successional stage them that on Boca Brava. The canopy is high and dense - it's ± 15 mg in most areas of Boca Brava, but was more like 20-25 m on San Jose. The understony was very open and easy to walk through with no grasses and few if any shobs. Small trees of about 3m is height were abundant and there were plenty of potential next sites, though these small trees were generally cleaner' and Straighter than Boca Brava Saplings. I saw no Expharbiacea sp. saplings or trees. but I didn't look too head. We returned along the coast and noted the volcanic appearance of the rocks - they are very fluid in morphology, and streated with reins of a bright green Stone that is something like Sepentium ar jade. See following page for a map of San Jose.

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Du Val, Journal EH. 2003 Isla San Jose, 7 May cont. Chinqui Prov., Panamá San Jose at very 4.76 Beles @= 2 unb Dh's seen i many partially-submerged rocks I noted a Panama Flycatcher in the understory, but saw no nests, manahin er otherwise, on our brief time there.

It seemed like it might rain, but did not. We did paperwork & in the evening and Julie gave me a plant sample from nest 1to sketch - it's not one of the typical 3 species, but looks very similar to the planet we've nicknamed "Species 3" for years (because I keep Bergetting to look up the scientific name in Berkeley). Leaves are alternate with short petiales, rippling along the edge, and have a smooth, darkish green surface. The new plant also has ridges along the leaf edges (very fine) Where "species 3" plants have a smooth edge. Where "species 3" leaves smell like fresh-cut grass when conshed, this new species had a tanger smell that was Somewhat Stranger. See back of this sheet for sketch.

The transfer of the second of

E.H. DuVal Field Notes 2004

General Index

1) Catalog - NIA

2) Journal 21 Mar - 12 Apr

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Du Val, Journal E.H. 2004 Berkeley, CA, Alameda Co. + California Pre-Bield season planning: 21 March 2004 is 2003, the 9-b pair was directly confirmed at: YPY - GWW 6CV SNK/LHL WGW - GAW SLN2 YYA - AOR TCJ5 YGR-YPB WPA - WRV WELY not noted in the master database but also known GAG - YVA w/ associates EDM WBR - RYY CCLI BAA - AWA SBEL (SBEI) (AUP-AWW) (RAW-RGG.) (WEL3) RYV - WAY. FBE 2 ACA AAR only 14 wed like to get 1/2 for BTR YVR - BY,V (GVA) in 3 weeks * check ble of recent GVA - ? GUL 2 Removal sites: SNKI 2-how watches WEL4 TCJ2 CCL5 goals for this field season identify of y B at as many display areas as possible 5-10 2-hr watches @ removal sites (+ 1/2 hr watches?) 10 1/2-hr watcless on different days for key other areas net any unbanded 88 ; teloweres + specksphotometer???

Soumal

Panana City Panama I left this morning for Panama. I finished my Allee competition submission for the Animal Behavior Society conserence at IAM + put it in the wail, for better or for worse. And I decided not to take the spectrophotometer or the telomere-sampling buffers. I may regret it once I'm there, but it's just too much to think about. Exponses so far: Shuttle to GAK airport: \$24 Hotel - I night Marparaiso: #22 Taxis in Panama City: 43 Grocenes: #21.46 Dinner at El Trapiche: \$5.50 I repacked, then went to El Machetazo this 3 Mar 2004 morning to buy film, pens, a journal, and most importently photos for my research permits. Then I took a taxi to ANAM (Edificio 804, Albrook) where I got my permits with little delay & no problems. As I was waiting, I met Brian Vergara (1507) 264-1286 office plane) who works on Bish (marlin?) in the Davien, as a field assistant. He's Puerto Rican, has lived in LA for 14 years, & has a house in Panama. He gave me a ride back to the Marparaiso and I packed may bags aft to the Albrook bus terminal. I caught the 11:15 bus to Horconcito (David line),

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Journal

2004 Isla Boca Brava, Chiriqui Prov., Panamá 23 Mar cont. which only broke down for an hour en route. And then I waited for a taxi at the Horconcito/ Interamericano crossroads for an horn before Toto (green taxi) came by & couldn't fit the research trunk into the car, so promised to send Gambute. I should have stopped him then, knowing that I hate Gambute, but I didn't & Gambute come & extented \$15 from me for the ride, charging others the 50 of to Harconcito. Turns out he charged Julian \$20. It took a while to find a boat to the island as well but I set talking with Romero's son and two friends, as well as Leo and Don. By the time I unade it to the island (William took me) it was around 4:00 pm. Padia had saved spaglittle for me, and Julian was waiting with Boxer on the dock. Home sweet home. The North wind has been blowing, apparently all week. Things are day & dusty between here of hor concito. 24 March 2004 The wind blew all day long, keeping the manakins in cheek. Julie has found one nest with eggs, which will hatch before we leave. It wereld have been better timing, both with nests and wind, to come several weeks later. But this is when we had

Spring Break, som Frank says everything is



DoVal, E. H. 2004 24 Mar cait.	Journal Isla Boca Brava, Chiriqui, Panama' late this year: the avacados are ripening slowly, and all the fruit is late. The wind has just Started this week, which means it might keep going for a while.

DuVal, E.H. Journal 2004 Isla Boca Brava Chiriqui Prov., Panama 25 Mar 04 - Weather was hot and day, again, with the North wind blowing and until mid-afternoon and then suddenly stopping. The manakin action picked up dramatically during this reprieve. I did watches at FDEZ GULZ, TCJ5, BR12, CCLI + SBEZ WAY seems to be gone from FBEZ entirely - YVB(DM) is acting like the load beta, with RYV Still present (9?). Before the water, I saw 4 redcaps (3 banded, 10) dancing on FBE3 dp, with an CB occasionally joining. The RC's were doing The Y excitedly doing the back - and -forth move when another RC Blew over. One practiced the swerp & bounce moves as well, with he one particularly paying attention to him. => Not aggressive displays because often not directed AT another bird. I do think that those behaviors are best described as partice or play. I set the video camen here in the afternoon to see if I could record any RC-RC dancing. The watch at GULZ was ill-advised due to high winds, + I stopped after 1/2 hom. TCJ 5 was similarly

ever seen feeding on Miconia Prit.

At BR12 I eventually saw Bow Gut

DuVal, Sournal E.H. 2004 Isla Boca Brava, Chinqui Prov., Panama things were again slow. I saw RC's WCX 25 Mar cont. and CYR - are the 2002 chicks naturing at several different rates or am I confusing the year? (YS (CB) was seen today lad hec) I was extremely harle: pactically DM. At BRI I also saw a bly catcher building its pendulous nest by taking liber it its beater, then rotating it's bod, around the pote supporting twing like a pet parent. I also saw a calling Streaked Flycatcher Swainson's Though, and fighting Yellow-green The dp at SBEZ has been conshed by a folling tree. BAA is nowhere to be seen of the replacement seems to be AWA. Important: sport - map or locations to identify display a reas; area: AWt is moving for + frequently.

DoVal, Journal E.H. 2004 Isla Boca Brava, Chiniqui Prov. Panama 26 March 2004 I did watches at the removal sites from 2004 today, and we're getting a handle on the long-term replacement results: V-? SNKI - GAW seems to be q, w/ WRR B. This is confusing on several levels: we had named WRR B perionaly, so this would be the first case of a B having his & replaced & staying B. Also, GAW was formerly & to WGW at LHL, and WGW. is still around (and coming to SNK sometimes) - TCS2 - YGR still is I have I have y I haven't seen YPB with him yet this year. NOY (DM) was there today (?) CCL5 - very little action V WELY - WPA & WRV still present + apparently of a - ACAY - 2003 - 2004 - AAR Still there BR12 - 200 A/A - SBE 2 - not same 88 in 2003 So for 6 long terms results, in 3 cases the inheriting of did not hold his territory; in I he did; and SNK+ CCC5 are a mixed bag. The SBEI gogs are singing up the hill near WEL3 (but on the other side of the road), & displayed for a f in that area. Today I saw a Lineated Woodpecker near ADS (NW and of strong area) and a make and female Thick-billed Exploria in the same area.

Do Val, Sournal E.H. 2004 Isla Boca Brava, Chinqui, Prov., Panama 27 March 2004 Things were fairly active this morning but died down midday. There was very little going on at TCJ5 - I'm not some whether the site is dead or whether I've just been watching it at slow times. I saw RVV (I think) at both SBE 24 EDMI. Julie saw a jagarrudi run through the CCLI display area, and I saw a howler markey copulation at OCVI. I found three nests with eggs, though only one had two eggs. This field season is so short that anything that wasn't before we leave. Julians recordings are going well - he finished a playback trial to test for song degradation in the borest yesterday. Today he was trying to get pairs of passible.

Topaid the veek's bill today,
which totalled \$109.40 First rain of the wet season this evening, from ~ 8 pm - 10 pm. It rained about an inch? (or 1/2"?). Frank says it was the first rain since December. The rancho leaks like a seive



Journal

2004 Isla Boca Brava, Chiriqui Prov. Panama 28 March 2004 The birds were active today, though not so much as I would have expected after a rain. I saw GAW (DA) QRing at LHL, confirming that he travels between there & SUK. I still haven't seen WGW, though both Julie & Julian claims to have seen him in the area. Testeday I found SOB (G)'s next war FBEI with one egg, and today I confirmed her ID (a chick from 2001, & we got her next last year, too) and noted her second egg. I also took several digital pictures of her on the nest. As before, she mobs aggressively when flushed, making it easy to get band combos from her. It was Idiais last day on the field site. 29 March 2004 - We accompanied Julian as for as Boquette of where we enjoyed breakfast at the Logar de Eneventros" (or a similar name) which had bananas set out on a stone wall to attract 5:rds. As we ate, we saw: Clay-colored robin Rose-breasted Grosbeak
Palm tanager Thick-billed Euphonia Blue-grey tanager

DoVal, Temp? Journal E.H. 24-35°C 76-15° F 2004 Isla Boca Brava, Chinqui Prov., Panamá 29 Mar. cont. Julie & I continued on to Pavid where we did some grocery shapping, abouted email, and changed \$60 in toweller's checks. It trained very hard in Horancito as we waited for a lift at 4.5 pm, but we caught a ride with some foresty workers just as things let yp. Someone has bought & vazed a con form near Boca Chica, and is planting teak trees with a small army of young men hersed barnele-style just on the edge of town. Iwas stony by seven bees while nest-searching today, and spent a few hours feeling som for myself. Let was A fabulous watch at cce1 at the end of the day changed my attitude though - WBR copulated with BAG (6) and nearly with OPA (G). We know whose both of those females usually nest, so we can hopefully collect an egg from each to verify things genetically and see who OPA does choose in the end I checked the Max/Min thermometer for the first time in ~4 days, and the range has been 24-35°C (76-95°F). No rain on Boca Brava since March 27. House wreno (2) near

the rancho in the evening + Julie saw a big bon at SNK.



DuVal, Journal EH. 2004 Isla Boca Brava, Chinqui Prov., Panama 31 March 2004 There is definitely a new dy being established near CCLI + CHL: App (pm)

App (pm)

App has been seen there

X/ x x Several times with various birds.

The day started cool + still

The day started cool + still

App has been the for the last 3 days her been 26-34°C (78-93°F)

Julie Saw a mid! that may have been a Grison (field guide ID pending). Next J-1 at WELY has hatched. I found an unb G building a next at CCLS that is at least 8' off the ground, and not at all on a slope - the highest blat-site nest we've found yet! Nest V-A near SNK also has one egg as of yesterday. I went scarching for BAG's nest lafter soing her coplate yesterday) and found a complete but enyty me right where she usually builds, Horn long does it take for FF to lay? This was i 24 hours after corplation. I saw a pair of Roadside Hawks

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DuVal, E.H. 2004

Sourcal

I-sla Boca Brava Chiriqui Prov. Panama
copulate in a tree near Lee's lot. 'tis
the season...

1 April 2004 The morning was overcast and the birds were active everywhere. I saw two Black-charted Jags being mobbed by Yellowgreen Viveos along Main smeet us I walked art in the maning. I flushed the (green) female from nest J-1 and saw that she was banded -- I with an A in there somewhere Going to my Bridge watch I Blushed a Little Tinamon from near the sit-spot at the top of the hill by BR12. My OCV next has hatched (2 chicks, 1-2 days old), and on my way to a watch at BBTR3 T flushy two Black Volture chicks from the gully west of ACA4. One ran as I approached, & crashing through the underbrish like a mammal and well disguised by thick beize down. The other stood very still, half-under a Piper sapling in the bottom of the gully. I was circled carefully around him until I was between him & his brother's escape path, and took several pictures. After a minute, he retreated rapidly up the gully to a

DuVal, Soumal E.H. Isla Boca Brack Chingo, Prov. Panamá
1 April 2004 continued 2004 hole that looked much too small for two nearly-grown vultures. I located the sibling Liding among some vines by SPY dance perch and I left him alone to work his way home While I was at BTR I heard a volture fly into the SPY area maybe than coming back? This was the first the I've seen a volture nest. The BTR watch continued the excitement, with two copulations by YVR (DM), both with unbGq's (the same one?) In at least one copulation, BWG (DM) acted as beta - wasn't he the former pat CCL5??? It definitely warrants a little more observation. GVA (DM) showed up to QR when the watch was over, and he was also present at my next watch (GUL2) GUL was considerably quieter, and GVA was not present for most of it. I had spent so long writing about the displays for bemales at BTR that I didn't have fine to do a watch at EDM. Julie and I took toons entering data + working with the database - me from 11-12:30 t julie for 2 homs in the afternoon. There's 54:11 much to do, but it's not hopsless.

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DuVal. Journal E.H. 2004 Isla Boca Brava, Chinqui Prov., Panama 2 April 2004 I started the day by the bleeding the chicks in next E-3 in a gully East of OCV. As I kinished bleeding the second chick, BOV (SLTZ) mobbed me aggressively. Ding a notch at EDM I noticed a flock of denn-whistling benales mobbing a Manyone Cickoo near nest E-6. I've seen many mangrove cuckers lately, and they forage low in the regetation - they could Le significant nest predators. I watched an unbanded green-plunge Comme constructing a nest in the early stages at EDM she was breaking of chunks of leaf and then dropping them, about 15 feet from her nest site. She eventually settled on a chunk slightly smaller then her head. She flew to her nest fork (which I hadn't noticed before) and "tested" it, Squatting in the fork with both feet clutching one of the branches. She then dropped the leaf churk in the fort where it hung in spider wells which she had already a varyed.

She 'tested' the Site again, and the leaf piece fell to the ground.

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Journal

Isla Boca Brava Chiniqui Prov. Panama During an afternoon watchat WECY, I saw bemale XYX apparently, a female that fledged before she could be completely banded. I also saw a composition to Tourse near WELY and another near wel3. A pair of males seem to have set up a new dance perch near the croce, weress the street from CRZ. I hunted them down twice (at 3:00 pm + 5:00 pm) and both the they were SGY (on) and YPB (on). SGY was noticeably lighter, with a greensh rump. The more I see known-age DMs the more some I am that there's a first-year DM" plumage that's more greenish than older DM males. Julie saw a copulation at CCLI by WBR (DM), who did not display with a partner. She recorded an amosing inter-species interaction which I'm having her write on the following page:

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DuVal, E.H. 2004

Journal

Isla Boca Brava, Chriqui Prov., Panama
2 April 2004

During my watch this afternoon at CCL1 I saw WBR DM copulate with an Unb 9, With no help from his partner. Everything was quite normal throughout the display except an unexpected visit from a Swainson's thrush to the dance perch. WBR was trying to convince the unb of to Stay on the DP Since she had left two times prior before the thrush appeared. The thrush landed on the dance perch right next to the g. WBR came immediately to scare him off, but instead the thrush graphed WBR's leg witer his month and hung on until WBR grabbed the thrush's head with his Month. With some squealing the birds tumbled to the grand. The thrush left and WBR didn't miss a beat - he continued With the display which ended in a capulation. The unb of didn't seem to mind the interruption. Julia Yanny - Lignion

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Dolal, Isla Boca Brava, Chrigoi Prov., Panamá 3 April 2004 E.H. 2004 We set three nots this aroming and caught seven manakins were the FBE road. All were naive birds - either unlanded (greens and a red-cap) or birds banded in the nest (one DM Brown 2001 and a CB from 2002). I collected feathers from the head, breast, back, & ounp of each for spectrophotometer analysis - I do wish that I'd bought the Ocean Opties machine to the field nor. We did one watch each and intended to reopen the nets but Frank kidnapped Jolia for a mid-afternoon fiesta, and work was delayed by an how or so. We still managed to open noto in the afternoon and caught one female - RRR #023. During the woming we captured XXX, and she tuned out to be a different individual (#629) than those listed in the MBL. We completed her band combinations

DuV2, E.H. 2004

Journal

Toka Boca Brava, Chingoi Prov. Panana

4 April 04

The day was still and hot, but the manakins were still fairly active. I die and I careful form in the marning (plus by catch) and did watches for the rest of the day. The next that I suspect is BACI'S how two eggs today. Amelia arrived for a night, married (!) and with her esposo Ricardo.

5 April 04

Today I heard a Laughing Falcon calling comspicuously from the large trees near the first beach. I went to investigate after my fourth watch but couldn't find it. Julie Saw RYV copulate twice in the afternoon (with the same female). We spent a portion of the day entering date, though I've decided that late morning date entry is more effective than afternoon data entry: the birds seem to become very active of the lunch but, after a brief spent of morning activity, don't do much from 8:30 to noon. It could just be the

DuVal, Journal E.H. 2005 Isla Boca Brava, Chirizvi Prov. Panama and still. I feel like we've got a 5 Apr. cont pretty good handle on who's where for our wain sites, though the actual number of observed interactions with all bands read is the degreeningly low. Now to expend and survey other areas for bounded birds (new display tensionies 6 April 2004 Today I staked next J-3 after bleeding and banding the chicks, and confirmed that the female was WBV (LITE), who has been noting in the same area (SINI) since 2000. I also bled the chick in BOV's most (near ocu). There is only one chick left in that next, and he had lost the the band that I put on when I first bled them and staked the next. BOV may have removed the Aluminum bands (and chick) from the nest. As I left the area, I saw DM CTWW, who I believe has been the Bat OCV for the last 2 years. Has he started a new territory? Did "SLP" exist before and just not get absented? We've heard are lately by the vertainment as well. Hox,

Sunny day.

Journal

Isla Boca Brava, Chiriqui Prov. Panama 7 April 2004 Today were overcast and still, and slightly cooler thous days have been lately. I did a watch at SLP, confirming that

BWW is in the area, then opened the 6 m net that has been closed at FBEY and did half-home watches is the area between not ovus, I caught one unbanded bemale, who was homibly tangled, double-bagged, twisted, etc. I observed YVB (DM), corrently Bat FBEZ, doing a quite serious SF-1 Bon an unb G at a site I'm now calling FBET FOR Your Road (FOES) opozzo

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DoVal. Journal E.H. 2004 Isla Boca Brava, Chinqui Prov. Panamá 8 April 2004 Temperature range since last checked = 25°-37°C or 76-99° F. Today was on the cooler end of things: it started overcast and extremely bosy throughout the study site. I took adher observations as I walked to BRI, and nearly every dis

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a new perch slightly east & sphill, just

Do Val, Journal E.H. 2004 Isla Boca Brava, Chiniqui Prov. Panama 9 Apr cont above the vine tangle where they have displayed in the \$ past. When the two other males began PF-2, APA broke off his display to chase there one at a time from the area. In the middle of this, I wow showed up, reminding me that we hadn't found her nest this year. I looked toward the dance perch and ... there it was! A low nest with two chicks, 1+2 days old. WOW mobbed me as I bled them. As I continued to observe the dance perch area, Christina Mueller's two large dogs came down the path with her houseguests and proceded to boisterously great me, halting Il manakin action. I chased THEM from the area when Boxie began investigating the next Later in the oftener I followed a QR bout uphill from the SPYI do and Bound RYS (DM) singing with (B)W(B) (DM). RYS was unbanded until the last day or so of the 2003 field season, when I whistled him in a net. He was a territory-holder last year + seems to still be one this year. The males flew from QR to displaying for a female,

realliming their tentonal states.

DuVal, E.H. 2004

Journal

Isla Boca Brava, Chiniqui Prov., Panama
10 April 2004

I staked nest E-2 and saw VOY (6) acting very nervous. The chick is doing like. I entered data for the rest of the morning and part of the afternoon, switching off with Julie. Then I did a watch (1-hour) at BTE4/1, where RGW and GBY were duet-singing for long; high bouts. The watch was intempted after 20 minutes when a down-whistle chors of surprising intensity convinced me that I needed to Check out the threat. Down near the Clance-trilled are the only manatis BIR sping palm aven, manatino were him down - whistling like crazy, mobbing a particular spot of underbrush. There were also yellow-green viness, a male red-legged honey creepan, and swainsons thoushes, as well as a few fly catchers. As I approach a largist, nottled brown bird slightly smaller than a roadside hawk flew dway toward BTR. I followed and cought a glimpse of a medium-sized owl (2/1) parched low and standing very erect. The tarii were feathered, and there were intricate patterns of darter brown on the cinnaman brown wings

Du Val, E.H. Journal 2004 Isla Boca Brava, Chinqui Prov. Panama and back. The out flushed again and the wings again appeared to have lighter brown nottling in flight. Kaybe a MoHled Owl - I didn't see the head. I floshed ABG (G) off of Julie's BIR nest, and got her bonds. Then I finished the watch and vegged nexts. The famale noting by the SBEI pump is indeed BAG (G), and I took one age for genetics. The embryo was 5-6 days old and still small, but with a large head, exith large translucant lobes behind the eyes I need to look at an embry day book re chick development when I get home, just to back up... Julie bound a Common Paurague next near ACA4 by accidentally flishing the parent. At night we went with Frank and Yadira to their house to sit on the parch drinking Balbon and talking. As we sat there, we heard two types of onls: one that jut gives a "poof" call jet regularly at intervals of about 10 seconds (I thought it was the spectacled only, but after reading Ridgley Gwinn again last night I'm not sure). The second was a more varied call, we repeated short notes vising in pitch at and.

DuVal, E.H.

Journal

Isla Boca Brava, Chinqui Prov. Panama'

11 April 2004

This is om last bell day of the short lield season. I woke up at 4:30, fell of nervous energy and planning how to make the most of the day. But the day itself has started out clear, calm, and still - just what manaking don't seem to like. My first observation session was almost completely quiet. Eileen would say "never twit a manaking."

Crested Oropendoless were in the area as I started the watch at BRI.

Before that, Julie showed me the Paurague nest — a town depression in the leave, with leaf litter cleared away to make a slight bowl. The eggs are pinkish with brown speckling and are about twice the volume of a lance-tailed planakin egg. We again flushed the female (mule?) looking for the nest — she blends in so perfectly that we couldn't see her at all.



DuVal E.H.	Sournal				
2004	Isla Boca Brava, Chiniqui Prov., Panamá				
	12 April 04				
	Temperature vange since last measured = 78-90°F, 25-33°C.				
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E.H. DuVal
Field Notes
2005

General Index
Catalog EHD 027 - 031

Journal 13 March - 8 July

Du Val, E.H. Catalog 2005 Isla Boca Brava, Gulf of Chiriqui, Republic of Pavama
027
lanceolata
Chiroxiphia tamcaluta chick, days old 9 April 2005 Dead in next 5-1 by first beach. Apparently abandoned after mother was mistretted at the next. 3.5 g weight. April 2005 EHO 028 Chiroxiphia lancedate chick, days old. dead in next with EHD + 2 bandoned due to researcher disturbance. 5.0 g. EHD-029 Chiroxiphia lanceolata chick, days old. found dead in nest at 14:00 on 154009. Mother captured at the nest the EHDO28
previous day at a 0800. Sibling of EHDO25 Alive and begging hard at 1100 cm 15 Apr. 5.0g. Bands removed for reuse, chick Stored in EtOH. Chiroxiphia lanceolata fledgling: 20 days old 12 May EHD 030 weight = 10.5g Abandoned chick from nest S-10; raised in contivition from 29 April - 12 May. See field notes for details. skull ~ 10% ossified; fat = trace Chiroxiphia lanceolata chick 29 May EHD 031 Youngest chick of nest 5-14 wt = 12g. Infected eye; bled to death during routine blood sampling.

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13 March 2005 - Pananna City, Panama I arrived in Paraum City on the usual Continental Blight and waited in the airport for Anne Bjorkenne to arrive.

Steven Barbaris will join us tommow night. I paid \$100 in extra baggage

My blight= 44.45 14 March 2005 - Anne and I went to ANAM where I found that they had no record of my permit application! Cuckily, Ibélice Anakina Anino sat down with me and awayed the paperwork then and there. She says the permits should be available tomaron We also hit El Machetars, Ardiofoto, and El Rey for more field supplies expense: 2 tripodo: 67.20 2 stopwards: 14.68 food (Rey) 40. passport photos (2 people): 4.20 El Trapiche: 16.49 +1.75 Hotel room: 27. +33. Taxis: + Aman 1.75 ANAM - Androfeto 1.75 Reg -> Otra Audiofoto 1.25 Audiofoto -> Hotel 1.25 Balton > Trapple 1.75

Alhamba > Hotel 1.75

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	Tal. R. 7 CM / Clark C D /
_	Isla Boca Brava, Gull of Chiriqui, Panama
	measure duetting synchrony in this species
	Heavy rain last night for a lan
	Heavy rain last night for a lay while (>1 hr?). In the afternoon
	we switched from the "new concrete
	vanchos" to cabin 5 (water inside
	the home! Private bathroom! ('), which
	will cost us \$80/wk. That a big
	jump from the \$56/wk I was paying
	Sefare, but what is there to do



Isla Boca Brava Chiriqui, Panama 19 March 2005 - loday we continued the process of teaching Anne & Steve the field site. I walked them though & EDM, GUL, BTE + PHT1+2. In the last few days they've also learned FBEZ, ACAY, SBEZ, CCLI, SNX1, CUS I was stray by a large scorpion today and I still count feel my and my hands are tingly. I found a nest with chicks today for the first time this year. The chieles both about 4-5 d. old. For tomorow: we'll do "review" watches at places everyone now knows in the morning, them learn two or so new places in the afternoon. 20 March 2005 - I bled the chicks that I

found yesterday and had Anne and Steve do observation sessions. Anne saw a Tayra (1) at SNK display area. The species has a p cheek must to it in the restaurants mammal book, implying that someone else has seen it have, but it's a first sighting

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Isla Boca Brava, Chinqui, Panama for my field crews.

21-23 March 2003 I switched to a "dayplanner" Style of keeping track of our work schedule - see the appropriate pages of this notebook. (in tro Early nest-searching has turned up a lot of nests already. We seem to have missed a big wave of capulations, but we're just on time to find the resulting eggs. This is something to keep in mind as I look at activity nates for this year: & visitation shouldn't necessarily reflect nating success when you weasure visitation AFTER evengone has united Also different Ber His year is the early raing season: it's already quite green and wet in the forest, un-Pilce usual for this time of year.

Isla Boca Brava, Chinqui, Panama 24 March 2005 - Overcast all day; hard mile for ~ 1/2 how at night (with my boots outdown) The birds were quite active, especially in the afternoon, though Annis territories were slow. I saw Biw and BWA dance for a female at BRII - no sign of BOW this year Likewise GAG is missing. YVA seems to have taken over at EDM. WBR and RYY are still together ut CCCI, but RYY is spending a lot of time at CC12 - is WBR losing another & to buddin ?? I saw YPB (former RJS & starter of DPO area) displaying with an "S" DM (banded in next) at BRI4. I found a nest with two chicks that were about 9 days old - yikes! Luckily we'll have the annual "Easter Egg 'Heat" this Junday and will hopefully first some of the remaining undiscovered West then



DuVal, Lournal E.H. 2005 Isla Boca Boara Chiniqui, Panama 25 March 2005 - Watches today were intempted by heavy rainfall in the afternoon. Home was a trooper and stayed out in the field for about an how & a half after Steve and I gave up. I showed Steve how to we the data entry macros, then gave Anne a briefer versia when she came home & warmed up. 26 March 2005 - After yesterday's vain there was mud in the tracks of "Main Street" and these prints were clear in the worning. Somewhat closer together + more similar in size than drawn here vight track larger. Afew feet. away but in a hifferent orientation / (- blinter toes were those !

Do Val. Journal E. H. 2005 Isla Boca Brava, Chinqui, Panama 27 March 2005 - Today was Easter and So we repeated the traditional Boca Brava easter nest hunt for once the event was well-timed, and we found one withe two chicks just a few days from fledging (YVV was the female, + the nest was a 10 m from where I remember this female nesting in 2002). We've already got blood samples from chicks in 6: nests (all with known mothers) - not bad for our first two weeks of work! There was more hard rain this evening - we still have no rack grage set up. There were also more tacks on men Street something with semi-welbed tolon. I found a boa of 2-3 ft. length near BRI3 today. He was dark brown with Slightly darker halfvery still and half-on half-off the path, with his worth askew as though his jaw was broken or he was eating something distanteful. I was sure that Someone had clubbed him with a stick + that he was dead, tridescent but when I pussed by again he moved off slowly sheer to brain,



DuVal, Journal E.H. 2005 Isla Boca Brava, Chiriqui, Panama' 28 March 2004 - A full day of watches 29 March 2004 - We went to David with Frank to check mail & email, and to restock our ford supplies. I found out that I didn't get the NSF IRFP grant, and that Chris Convoy didn't receive my emad detailing the curatorial work that I've partially completed and intend to finish this summer. So Chris is, of course, livid, and is having wass emails sent starting that a good streamst recently binis (ad with covatarial hours incomplete," etc. Terrific. But there's nothing I can do from here except try to recreate my original list and go to town next week just to sand apologetic email. Maybe Chris will have cooled off by the time I get home in 3.5 months. Jam's concervaged me to submit the "display interactions of young unles" paper to PRS so I'll try to get that together for next week as well, just to make the David day less depressing. Julianis talk a the development of coordinated singing went really well apparently, despite a somewhat amusing introduction by Eileen (accidentally amusing that is). He has bought a microphene and will be down sometime next month.

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DuVal, Journal E.H. 2005 Isla Boca Brava, Chinqui, Panama 30 March 2005 - The day off. Frank teased me about having so many days off this year, but I believe that 2 days aff and one David day each two weeks is the old Standard for laid brank 4-month field seasons. I spent the -160 - for knowing verising the young male display for the week paper, and liked to LOT to blead & bank WOW's chicks in the afternoon. I need to work data entry into the daily Schedule, as we're already swamped with data sheets. I also collected the first egy for artificial incubation today - its sibling is still in the next. 31 March 2005 - We all staked nests in the morning - there are now 5 nests with vakueur many. We successfully got bands on two of those were today, and established one band for a third man I found a few more nests (!) justing my total for the year to over 60 wests found, and 41 active. Incredible! One of the new nests had a chick of ~5 days, + an unbRC 7 standing on the side of the nest. So tomorrow I'll net for her and bleed her chick, assuming I can get permission from Claus and Mechtild. Light vain in the night.

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2005

Journal

Isla Boca Brava, Chinqui, Panamei 1 April 2005 - Today we all staked nests again, and Steve discovered that two of our target Remales are inhanded. I continued to have no lock with the E.12 Gennale (she's nesting where PYP did last year or the year before - could PYP be getting way?). T uetted for 2.5 hours at the next near Claus's house (E-41) and at one point flushed the female into the act but she Struggled free before I could get a grip on har. Argh! I just took an easy job and made it difficult. Anne entered data for ~ 1 hr. in the afternoon. We've only got ~ 18 records entered at this point, and we're producing up to 15 records per day! We might have to drop back to just entering summaries for a while ... While I was mistnetting at E-41 I explored along the coast (John's land "now belongs to Max from Denmark who has lived is Costa Rica for 15 years). I found a next of a Mangrove Black Hawk in a tree overhanging the high tide work. The next was ~20 feet high and 1.5-2 feet in diameter constructed of twigs. One of the parents

vocalized aggressively and followed one in I walked. I kept on eye out for full-on

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Isla Boen Brava, Chinqui, Panamá

attacks, remembering my experiences with this

west in past years, but none came. Another

Black Hawk (the mate, presumably) circled nearby

with two vultures.

It rained in the evening at a 7:30 pm, though fairly lightly (< 1/2"). The day was generally overcast.

2 April 2005

I'm corrently netting, again, for the vabsing female of nest E-41. I'm half on how into it, with no sign of her yet, and so I'm thinking of details of the project that I have been avoiding and need to address:

Analyze 1-hour us. 2-hour watches
- Are measures of activity vate the same in 1
vs. 2-hr? Run a paired -t test company

the measures of QR & B rate in the first

hour us. the whole session for 2007

data. Also consider: extinction come of

district endividuals seen. Repeat

w/ '2-hour watches from 2003 - 2004.

Hopefully there's no difference... Amajor

justification for 1-hour watches now is

the limitation of mini-DV commonder

taps (all are 60 min. long)



2005 Isla Boca Brava Chinqui, Panama (2) Check in with Annex Steve regarding the video procedures: Standardize distance to display perch, list areas where we aren't setting cameras because the dp is unknown for for other veasens?). I veally like the cameras, because I'm frequently out of sight of display perches details like whether the female was on the dance perch, but so far it's also a lot of work for little payoff. This week we added "comen blinds" (minidrapes of brown or brownish-green cloth over the shing cameras) to try to unhimize disturbance from the cameras. I Suspect that most of the lack of diplays for females is because most of the nests we've found now have eggs on chicky. The females are busy. 3) Delegate mest duties - I'm just plain administering too many nests. To avoid forgetting any. I need # to divide some among Anne + Steve. I also need to make clear the procedures regarding

bleeding /banding chicks, and updating next

info on a nightly basis. Dividers will

help in this process.

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experienced 99 do that naive ones do not?

visits to nest? Nest visibility? How
to yet these things?

t organize nest væg accordingly

(5) figure out how to transfer video from mini-DV to the computer.

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Isla Boca Brava, Chinqui, Panama 10 April 2005

I'm staying home this anaming to "make paper war" as Frank would say. One key thing to be done is deciding which nest variables should be recorded for failed er fledged nests. To decide this, I looked back at the 2002 next data (still unanalyzed) to see what patterns converge. In that year, we did not take data on physical characteristics of old or aboundanced (ander construction) nests. The trends seem to be: slope has no effect on Bail v. fledge. nest ht has no effect on fail v. Bledge 70 cover her " " " " " " there 15 a marginal effect of distance to dys. even with ontliers excluded. Possible conferred: 39 nest in the Same place repeatedly may be the 9, not the nest site? C30m, hodild ; <60m hodiff; <100m=differen

There 15 a hypothesis that leks serve to attract predators in a radius around highly areas, and that 99 should nest with an optimal radius to maximize nest success.

Isla Boca Brava, Chiriqui, Panama D. Val, E.H. 2005 Zone of predator attacking lek K. . wardom predator 10 Apr [cont] a the top kind 9 nest area problems: is nest habitat the same as optime of babitat, and therefore the difference is in good Us. Sad unuaky habitat rather than wear v. ga- from display areas? (How do you measure that?) (2) 88 repeat next locations (but note same loc is frequently recepied by diff 79) Test: place nests w/ quail eggs at intervals from display areas, usuiton three to Bail. 30 m 60 m 90 m? - I treatment set @ each display - 20 display areas total (? nests) - measure hubitat varis around nest; to be sure no diff. - Glas exp nest sites (wk b/f, + put out nests (?) - place at average ht (1./m?) - make nosts from real manufer nests 3) This man I have to find 20 areas that are at least 180 m from other areas

DoVal. Journal E.H. 2005 Isla Boca Brava, Chinqui, Panami 10 Apr [cont] Materials needed: 1.60 Bailed or abandoned or old manakin nests 2.60 forked sticks to attach them to (branches? bamboo? 3. Some way to tie nest to sticks (thread?) 4. 60-120 quail eggs (1 or 2 eggs per nest?) 5. 100 m tape, or trope marked at 30m intervals wouitor daily? even 2 days? Bor 18+16=34 laying dates seen locally synchronized does next initiation relate to or activity in the area? Cause or effect! 77 nest loc 7 mating choice, therefore were likely effect of & presence that is beneficing to the F.f? Rather than of weeking were røise to draw predators away fran F. halle - problem: no predators usually seen around lek sites, & displaying 200 rarely die Proximate cause not answered: 00 defend/alam call C predations b/c of visilance in displayment

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Isla Boca Brava, Chinqui, Panama 15 April 2005 - partly cloudy all day - moderate amounts of mandin activity. I spent the whole day mistritting for unbanded females with next. I caught two more of these unbanded mours, but to my dispury found that the chicks in at least one nest turgeted yesterday had died. Steve checked them at 11:15 am and found them extremely hungry. I stopped by on my way back to the cabin at 14:00 and found them both cold and freshly dead. There was one ant investigating one chick, but they were otherwise untorched. I collected them, i removed their bands for reuse (T banded #700 today, and the metal bands run out at #800). I preserved them both in EADH with the 5-1 baby. This really is a particularly high nest failure rate after catching the female. I'm not sure what I can do about it - I've got to dete band the females to check paternity... Perhaps more broad-Scale wistnetting away from the immediate nest area? Either way, my heart's just not in mistaetting these females now.
While I was targetting an unb 9 wear the EDM area, I caught a

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Duval. E.H. 2005	Journal	
15 Apr [cmit]	Isla Boen Brava, Chiniqui, Panama fly catcher (Paname or Dusk, - capped) that had strange growths on both its feet. It boked almost like bumble foot - some kind	
	of Bungal infection?	
		Programme Works
1,100		

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Du Val Journal E.H. 2005 Isla Boca Brava, Chiniqui, Panama guess I thought I hadred evritten about this clay in: 15 April 2005 - I spent today and yesterday catching unbanded bomales at their nests loday I only caught two new Gernales, though one included three "by catch" manakins in the same net, and for the other I caught two possible females by the same nest at the same time. We're unfortunately seeing a particularly high vate of hest aboutonment after catch the bemales this year. Today Steve alerted me to a nest of too-hunga Chicks whose mother was targeted yesterday. He saw them at all: 15 am, and by the time I checked them at 14:00, they were both dead But. There seems to be he good option for sampling these females otherwise, and so I have to continue netting them. The only other Solution would be to revamp the Site-wide interne mist netting, and that's not a great option with 10 uests of known unbacked morns present in the same week! In nest E-35, there was a 4day-old chick and an ey - in the Suspicion that it wouldn't batch, I took the egg to the incubator - at least we'll be able to sample it.

2005

Isla Boca Brava, Chinqui, Panama 16 April 2005 - clear and sunny for most of theday We seem to be having a revival of the summer we never had - little rain, dry clothes, Frank fretting over water (because of a broken pump, though not because the wells are day). I didn't net any more unbanded females with chicks today, simply because I was wearing myself out on that task. Instead I did five watches, and vegged the nests out by Clausis house. At my acacia area watch, a little Tingmon walked by and I got a great look at it only my second tinamon sighting in all these years. Anne saw her first manakin copulation (at FBEZ) today - which makes two consecutive days of copulating wanakins for us. We seem to be entering the second round of nests. I bound three empty nests today, and agintain hope that they will soon have eggs. I went to check next E-47 ("The World's Highest Manakin Nest" and found a baby Still in the uest. As I winched the branch over to where I could reach it though, this baby fledged in a perfect fluttery flight to a high branch.

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Isla Boca Brava, Chinqui, Panama

16 Apriconit) I confident tell whether he skill had any bands or not (the first round of bands were applied when the chicks were quite young). As all this happened, formale RYF was wobbing, confirming her maternity. When I mistrutted her I was not at all sure she was associated with this nest, as it's hard to place a net close to such a high location. That's a relief...

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Isla Boca Brava, Chiriqui, Panamá 18 April 2005 - Heavy min PM for ~ 45 min Today I was blessed with incredible luch. I was (again) targeting unbanded females that had chicks in the nest - there are just so many this year! After I setamet at E-25 (ccc) area). I went nest-searching and found a nest of chicks that were a day or two from fledging. The (banded!) mem wobbed me fierely (as fierely as annaking ever wolr) and I get her to I bled and banded those chicks, then returned to find the E-25 female in the net. I figured out that E-50 also had an unbanded female, so I moved the net acress the road to that hest and caught her as well. In the mean time, I left my backpack on the first beach road in a blind corner, and trank van it over with his truck It was a direct list, but I think the worst damage was a slightly bent sundances frame. He missed the GPS while was in the bag and it took me a few Scary seconds to realize that my binoculars were safely around my neck. Before the rain Started at about 3 pm, I caught inhanded females at two more nests. I'm



DuVal, E.H. 2005

18 Apr.

Journal

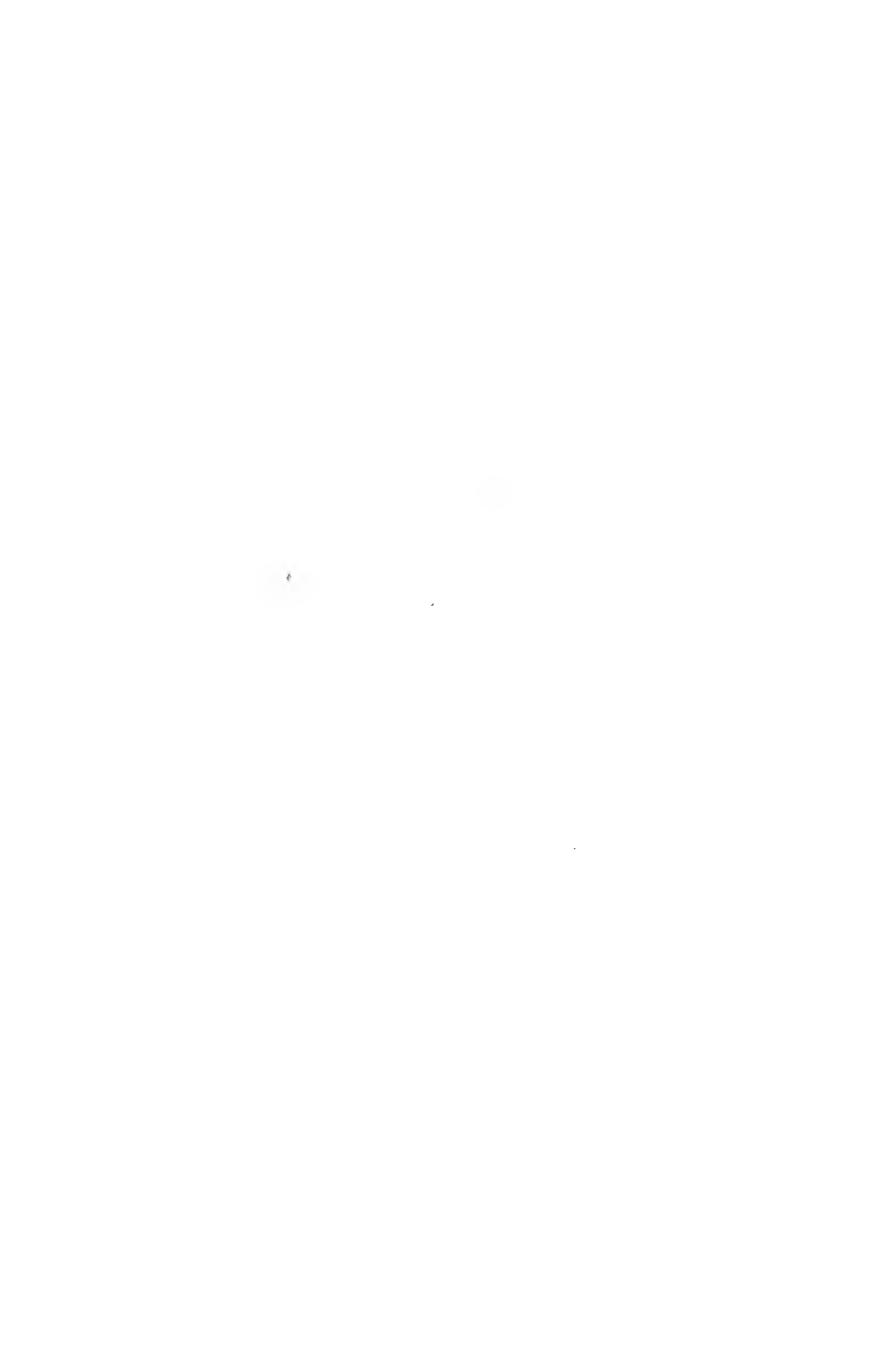
Isla Boca Brava, Chioqui, Panama Still womed about the high rate of next failure after I catch these unbanded females. I checked E-28 (the only female I caught yesterday) and the chick was cold and begging strayly I fed him 4-5 ripe Miconia bernies, and did the same for E-25. E.50 was warm and not hungry though it had been several hours since I caught his mom - she seemed especially alert when I released her, so it seems that she was imphased by the ordeal. When the rain started, Steve and I came heme to work on data for the rest of the afternoon. Anne again wan the toughness award and stayed out longer than us. At 6:30 pm, I decided to go check E-28 again, with the idea that the mother would have broaded him during the hard rain and fed him then: if she hadn't abandoned, I should bind a marry, dry, sobiated chick. Instead, the chick way cold and wet, and begged strongly. So I took him home to serve as our pilot chick for determining whether it would be feasible to vaise young males in captivity for experiments on learning. I placed him in one of on old nests (collected for the pending

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DuVal. E.H. 2005

Journal

Isla Boca Brava, Chiriqui Panama quail egg experiment) in the iscubator, and fed him about 1.5 cc of Exact chick Good mited with boiled water. He ate well, though the food went even where and I had to Spend some time cleaning him with a Q-tip to be some the ants wouldn't eat him alive. Later in the evening (~10:00) I tried to feed him again, but he was foot asleep and wouldn't beg. The incobater hady Switched in, so I fixed the connection and left him until maning. The eggs that had been in the incubator were both collected this afternoon (ie opened + the contents stored in E+OH). The one from best E-35 was dead, as I suspected. I put this one in the acceptant because I suspected it wasn't going to hatch but I still wanted the genetic sample. The chick was I 10days developed, but clearly long-dead. The E.49 egg I cousted accidentally when cleaning the lacubator. E-49 had already Gailed, but I was considering an attempt to taise the chick (as I'm now doing with the E.28 baby instead). The E-28 chick has been debbed Pilot and will be referred to by this name in my later notes



Isla Boca Brava, Chiniqui Panama
19 April 2005

Pilot was not responsive when I rousted him from the incubater at 6:15 am to feed him. But just as I was about to give up, he begged hungrily and ate a good quantity of Exact chick Good. I fed him again at 7:30, then took him with me to EDM where I was netting for the E-36 female. As I netted, I searched Bor Hintella benies He was unable to cert
a whole beny but if I cut slices of the frit aff he ate them hungily, then ate the seed and its remaining flesh as well. (The seed is only slightly Smaller than his head.) He regurgitates the seeds a 5 minutes after enting them, and produces a big, gelatinous fecal Sac after being fed. He also produces smaller feed wasses that are not gelatinous, which he deferates over the side of the ust so that they fall away from it. 14:00 - Before setting my net at the 5-6 nest by bridge, I went to recover my machete that I left out in

vecover my machete that I left out in the rain yesterday (by 5-9). Right near the nest, I found a green overhoned beer box, beize baseball cap with an Controidered Nike Symbol, a long and

DuVal, Journal E.H. 2005 Isla Boca Brava Chiniqui, Panama Sharpened wachete, and me spent 19 Apr Shotgun Shell. What's good enough to Short around here? Mankeys? Iquans Us? I assume those are Roberton's things, since he's skipping work today and they weren't here yesterday. I know Frank doesn't permit hunting, and I don't like the idea of Someone shooting while we're in the forest. This every the captive chick experiment came to an about and tragic end when we came back from dinner to Bind "Pilot" dead and covered in auts. They were alread well on the way to eating him + had apparently killed him for that properse. The culprit were the small, parful black auto that have a nest ostsøde om dom. Pilot had eater well all day, including about 14 of a film canister of Miconia benies of for lunch and two Exphorts seeds with amils. I also So getting captive chiefs to eat is no pollow - defending them from arts seems



Do Val. Journal E.H. 2005 Isla Boca Brava, Chinqui, Panami 20 Apr 05 Julian arrived late last night, and today was the day off. Anner and Steve visited Greg's book while Jolian and I reasonged the research equipment). The rest of the day was truly "off" - we went swimming at Second beach, sat around and talked, etc. Spotted Sandpiper at 2 and Beach. About a American American oystercatcher here es well 21 April 2005



Isla Boca Brava, Chiriqui, Panamá

I was again netting for unbanded females with chicks today. The "4 A-4 mon was carglet as she mobbed we after I banded + bled her chicks. She Hew away strongly and suffered no feather loss, So I have that She want abandon the chicks. the second nest of the day was 5-10, which has chicks just slightly younger (8 days?) than the A4 nest. That female, too, wabled the as I bled the chicks but she nicely avoided the net which was somewhat lower than he wobling path. After about 10 minutes I retreated to see if she would fly love with a less direct threat. Ohen I checked the vets, I found only the larger chick still in the nest The smaller one was on his back on the ground with a small amount of blood under one wing. It seems that the Cemale threw him out of the next possibly because of the presence of blood. Bith chicks had one plastic legisand, I were placed banded leg from view. The chick that was on the grand had a yellow band, while the chick in the nest had a red band. I cleaned

the residual blood aff of the yellow-banded



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DuVal, E.H. 2005 Mar 19

Journal

Panama City, Parque Metropolitano Republic of Panama 15 March 2005 - We went to the Tarque Mar 15 Metropolitano in the morning where we Saw an array of interesting birds: dancing lance-tailed Manaking (with a f on the dp), four species of wren (rufus - and - white wren (Thryothorus refalbus castanounts); black-bellied wen (T. fasciatoventris); Rufousbreasted wren (T. rutilus hyperthrus); and horsewren). Also keel-billed towen ved-throated ant-tanager, streated flycatcher, blue dacnis (99 fighting - fell to the ground at our feet). Crimson - backed tanager, white - winger tanager, Euphania sp., Crimson-crested woodpecker, & and undetermined species of Mot-mot. Also fork-tailed blycatcher We then picked up on permits from ANAM (\$5) and went directly to STRI for their weekly seminar series I talked with Neil Sanith and met up with Sam Diaz-Moñoz, who fits in beautifully in Panama and saves money by walking where I would taxi. We stopped at El Machetazo in the evening, then parted ways with Sam and ate at Cafe Manolo.

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DuVal, Lournal Isla Boca Brava, Gulf of Chiniqui, Republic of Panama

16 March 2005 - to Isla Boca Brava

T changed \$200 in Traveller's Checks Boo March 16 and finally got to call Frank who said it was OK to come to the Island. We arrived by "Jon pe because Frank had alerted Jovené (Junior), who had been waiting for us at the crossroads for over an hom. I paid him \$20 for the taxi to Boca Chica because of the wait, and extracted a promise to teach we to use a lasso. We were inmediately presoed into the beer-and-gossip vitual on the island and barely unpacked before going to bed. 17 March 2005 - We walked the leigh March 17 of the Study Site Stopping at key display areas to see how Anne & Steve do at band reading and to get them used to walking off-tonil. The next few days will be orientation" to the island. We saw a pair of Caughing Falcons duetting in their typical "graco" call near the first (easternment) beach. The contribution of each individual is different: one says 'guagua - your - gua and the other Bills in " co..co. co. "They frequently get off by half a beat & change vhythm. It would be easy to

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DuVal, E.H. 2005

Journal

Isla Boca Brava, Chiriqui, Panama chick and replaced him in the nest, again, awanging the chicks so that their leg bands were hidden by each others' bodies. When I checked the ulst again after lunch the youngest chick was again gone. As I searched the good for how, the famile wolfed into the net (finally) and I gave up baby - hunting for banding. I'm not sure when she picked on the littlest one - the second round of baby-torsing took place after at least one trip to the nest with both chicks left in place. The female (now UFV) was body careful + is likely to about the West anyway at this

29 April 2005

The S-10 female did abandon (and the A-4 one did not). I returned to the S-10

Nest in the afterneon, a 23 h. after the female

was captured. The remaining chick was hungry

and there were wan, large ants in the

Nest apparently attracted by the a 3 underposed of

feed sacs. The arts were apparently biting

the chick as well, as he was making a

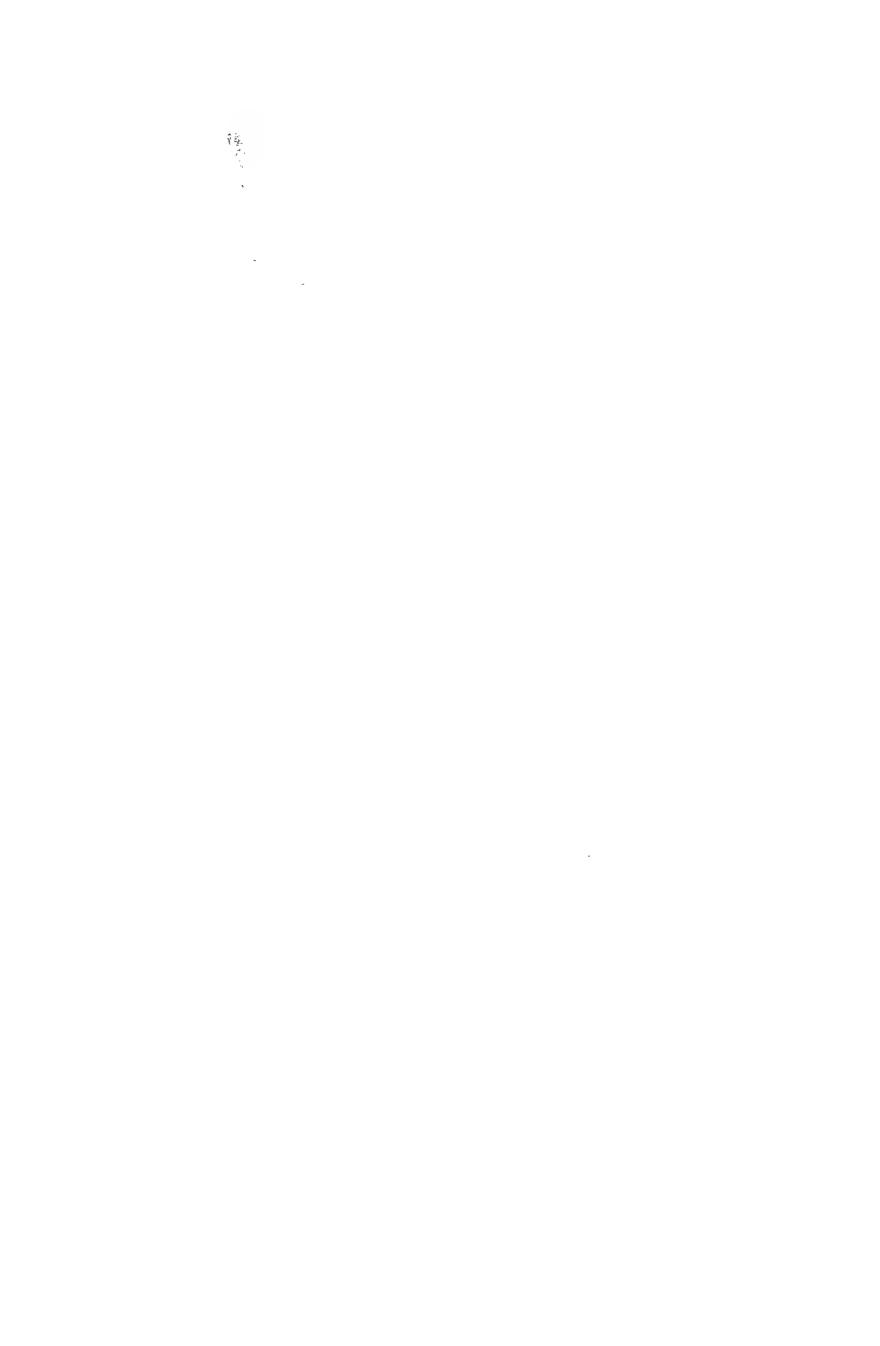
Squeaky alarm call and writhing in the nest as



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Journal

Isla Boca Brava, Chiriqui, Panama I approached. I took the chick and fed 29 Apr [cont] him a few miconia benies that I had brought along in anticipation of the abandonment. With "Red" in tow (he's get one red band) I netted
the E-58 female (now OAW)
The Time Ten and then headed have. I'm not sure what to predict regarding OAW's abandonment potential - she froze on the best as I set it a few feet away from her, and lost no feathers Anne and I have been discussing a side project on female personalities there seems to be a strong divide annual mobber, "Blushers, & freezers" - I wonder if the personalities are stable among hests for the same female, and amy years Is there a differential rate of success for Bledging young Bon each type? How can we Standardize personality measures in females? 30 April 2005 I again spent the whole day on nest errands. I caught two unbanded mothers in the worning, one of which was a redige female resting in exactly the same place as PRW did in Several previous years. In the afternoon I hikad all



DuVal, E.H. 2005

Journal

Isla Baca Brava Chiriqui, Panama over the field site banding and bleeding chicks 30 Apr. [cent] In various nests. The weather was tourist-perfect (which means it was auful for manaken activity - sunny and clear). It got briefly cloudy in the afternoon just long enough to let Julian get a few que-vico bouts recorded. 1 May 2005 "Red" the second attempt at raising a manaky chick is coming along vicely. He gained one gram Since yesterday, and is eating a lot. I'm feeding him Micania brit, Hintella Brit, and Xact brand bad, bird lood. He cats it all with gusto. We each spent part of the day dealing with our out-of-central data. I digened into dealing with the reviews of the plumage paper for Conder - It looks like I'll have to go to David this Wednesday to handle that. The USF reviews (IRFP gont) were generally positive, and all said encouraging things about Bart Kenpenaers and his lab group. All also emplosized that I need to publish what I've done so far Guess I'd better reformat the DPM paper and get it back out - but to where? Behavioral Ecology?

I did watches in the afternoon, and Anne babyent Ped.

Con		

Journal

Isla Boca Brava, Chiriqui, Panama 2 May 2005 I'm attempting to keep better track of what I feed the chick (Red), and so have Leen keepy a list. So far his caren: 5/1/05 at 11:00 pm - 3.5 cc | Xact at 6:15 am - 2 cc Exact 6:50 1cc 5xet Y micania benies (smell e puzzle) 8:05 0903 0512 (birst fecal sac with micais) 0924 4 " 0945 1015 1046 + I wed berry of meal, flesh bran wear claus 1113 1232 1250

Despite my best intuitions, record-keeping tailed aff in the afternoon. Red ate at least 20 more Miconia berries and 2.5 ce of Exact chick formula. He is hungar all the thre.

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DuVal, E.H. 2005	Journal Isla Boca Brava, Chiriqui, Panami 6 May 2005 Red weights 1/g today (9:45am).
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DuVal, Journal E.H. 2005 + May 2005 Today I saw two down-whistle charuses that were fairly intense. I didn't see the stimulus for the first (during a cccs watch), but in the second I saw a baby boa constrictor sillwetted on a leaf. Lance - tailed manahims approached, dw'ing, and hovered near the "leaf, then returned wings several times before hovering again.

Mobbig manakins included BRW (DM)

and several unbanded birds (G and RC).

Journal

Isla Boca Brava, Chirizvi, Panamá 8 May 2005 Today Red fledged - which is appropriate as he is 16 days old on the nose. I netted alone at EDA for the moning from 9-12, and kept Red with me. He spent part of the time perchia in a tree where I placed him. Then, after I put him back in the nest, he deliberately climbed up on the edge and took a fluttern leap to the ground. He also developed "altitude" in the space of two hours. He started actually assessing his environment, tracking more than just my fingers with his head, responding with a "churp." when I snapped my fingers, and (a real first) refusing certain types of Good (at least same of the time). By the evening, he was able to hopefly from his nest to the edge of the box. He's bolly feathered lexcept for his head and tail) though his bod, feathers are extremely bluffy + downy. We had heavy rain in the evening starting at 4:45 pm and lasting vatil about 7:00 pm.

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DuVal, Journal EH. 2005 9 May Isla Boca Brava, Chinqui, Panama Julian and I did watches while Anne and Steve went to David today. I had the chich, Red, with me for the morning, and loft him in the photo cage for the afternoon because he was getting too active to keep tabson. Some notes on his behavior: 1. He gives a "chorp!" call even 3-4 sec. When hungy, regardless of whether he can see you (calls more brequently if you approach) 2. When he's less bungy, he stays quiet until I call him (with a tayere. clicking noise or by cally his name) 3. His gape is now mottled dark gren and yellow (formerly all yellow) 4. Head still unfeathered, Tail slightly. 5. Slight book developing on tip of beat 6. Finall he sometimes actively Lites
mirrors beries - he bit and held onto several
(when held up)
on the tree but was mable to pull them off. 7. He flew with apparent intent to Julians shoe and to my leg (which he hit + fell off of) 8. He takes multiple hop-flights along the



DoVal, Journal E. H. 2005 Isla Boca Brava, Chinqui, Ranama ground, but seemy to have problems 1 May [cont) getting life. He is about I day away from being able to fly out of our reach, but doesn't get know to fly BACK when housey (he just sits and begs).

DoVal, Journal E.H. 2005 Boquete "Mi Jardin Es Su Jardin garden, Chiriqui highlands, Panama 10 May Weather: Clear and sunny, no vain Julian Kapoor and I left at 6900 from Isla Boca Brava to go on a one-night "vacation" in honor of his birthday. We took Chino Loco's bus to Horconcite, and got a lift from "Pollo" (Revben) Villalobo to David. In David, we called Finca La Suiza (near Fortuna, Chiniqui) to arrange for a room, but were told they were full for the night. Instead, we went to Boquete where we settled in at "Svenos del Rio" along the main river that runs through uphill toward the Sentero de los Quetzales, stopping at Cafe Rviz for a coffee. It was already quite lite, so instead of titlempty to make it to the foot of the Senders, we stopped it Mi Jardin es Su Jardin, a privately-owned garden that's open to the public. The gardens are manicored and decorated with whimsical States and buildings, and there was abundant birdlife. We birdad for a while, had a picuix, I headed home to "Sveños." Species: Red-legged Honey creeper 87 - 4 Clay-colord Thrush (feeding Pledylig) - 10 Blue-and-white Swallow - 20 House Wren - 2

Il May Fince La Sviza near Fortuna, Chinqui Panama weather: Clear of sway AMI, rain at 3:30pm.

We took the 8am bus from Boguete to David, and mother bus (Changuinda) to Finca La Sviza. We signed veleased, paid 88 each for use of the trails, and set off to hike the "Short Circuit" loop. As soon as we got off the bus I noticed Lance-tailed Hamskin duct song coming from near the highway. I didn't realize that they would be this high up in the arountains (though I did see them in Paque La Amistad in 2000). As we hiked, we It identified 3-4 display areas on the property. These were much nord Spread out than those observed on Isla Boca Brava.

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DuVal, Journal E. H. 2005 Isla Boca Brava, Chiriqui, Panama F3 May 2005 Islian & I got home after a few home of sleep at Pepe's house in Horconcito. Anne and Steve were out in the field when we arrived, so we took the time to shower, eat, unpack, and organize the (incredibly mess,) cash before going out to do watches. Red was hungy, so I fed him some of the large Micaria benies that I collected in Finca La Suiza. We fed him fresh local Miconia (the small purple sort) at lunch time, then left him until 5pm while we did watches and nest checks. When we got home, Red was hungy, "churp"ing and begging, so we took him out and fed him two of the large green Miconia, freshly picked. After only two berries he stopped eating and closed his eyes. He wouldn't beg any more which is highly vavsual for him, and he seemed cold. Julian warmed Red in his hands for a few minutes, then we placed him in the holding pen on a low perch over the heating pad. I covered the case with my "blind" to keep out drafts, but when I checked him in an how he was already dead - lying on his back

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DuVal, E.H. 2005 Isla Boca Brava, Chiriqui, Panami 12 May 2005 [cont] with legs in the air, already stiff. Could the highland Micania have killed how? It's tree that I hever saw manakins eating this fruit, and I just assumed it would be ox because of the genus + similar fruit to Boca Brava Micania. He had lost weight (10.5g at death, and he was 11g 6 days ago), and so it's also possible that he wasn't getting enough to cat, When I dissected him, horvever, a small line of fat was clear in the furculum, and his breast muscle seemed well-developed. It's skull was ossified only at the base near the occipial condy le. The rest of the brain case Hook layer of bone that could be felean sing be bone layer) occipital goods le with your binger. I stayed up until 1:30 AM prepping the skin, which (as usual) is not struying. Julian Claimed personal attachment and couldn't do the prep, though he's which more experienced than me. The organs + tissues all looked line - I'm not sure why he died



Dolal, E.H. Journal 2005 Isla Boca Brava, Chiriqui, Panama 16 May weather: drizzling van from 11:00 AM throughout the day. Heavy vain for most of last night. Briefly sunny + still this warmy comments: We each did watches in the marring (except for Julian, who recorded and libidum to sample an many males as possible). We all vetomed to the cabañas at lunchtime and Stayed to organize data in the afternoon. Julie listed chick band combos for entry into the Access database; Steve evenchecked and MBC'ed & nest data sheets; Anne entered observation data; and I caught up on field notes + coordination dates with Julian. It was a much-needed if tedions data day. We found a few quirks of the data: the combination BFY was used both for a SLBF or and for a Chick in nest . E-3, and there is a bennale banded either WRF or RWF, but the datasheets disagree (only one of these Combos has been used so for so the other is off-limits ratif are figure this out). Today Anne saw two females that had both lost broads show up together at FEN. I saw BYW (DM) at OPO, furthering DRI (where he was a) and DPO (where he may be B).

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DuVal.							
E.H.	Journal						
2005							
	Isla Boca Brava, Chinqui, Panamá						
18 May	Weather: Rain starting at 6:00 Am, lasting until ~9:30 Am.						
	Sunny from ~ 12:00 pm.						
	Today was the day off," and I decided to stay						
	on the island and organize data rather than						
	going to David. I need to change my plane						
	ticket to go home but will wait until I hear from Mon pright so that I know						
	exactly what to do.						
	Summaries of activity to date at display areas:						
	Summeries of activity to date at display areas: ACAY: \(\alpha = AAR \beta = GVB \) others: YSS, 8WG, SWY(RC) High \(\alpha \beta = AI \)						
	note: BWG has abnormal plumage? Green back?						
	ADS: x: YWR p: ? also seen: WSR GAV						
	Pula.						
	BUB: a. B: BER, AYV						
	BRI: a: BYW B: BWA Activity dropping off since: BYW at DPO since						
	BTE: X: RGW B:GBY Other: WBS(OM) "SF(CB), GYS(OM) CPR(QA)						
	note: 494 of at OCV; not some what up at PHTZ						
	BIR: a: YVR B: GVA offer: YAG? WBS(DM)						
	note: GVA also at GULZ, EDM?						
	CAS:						



DeVal, Journal E. H. 2005 Isla Boca Brava, Chinqui, Ranamá 23 May Emily and Inlian left this morning for Panama City. Julian returns tomorrow evening while Emily will be in Florida for 2 weeks as her mother is getting a mastectomy. Steve, Anne, and Julie remain to work a couple of days before Steve and Anne leave for a 5-day vacation to Boquete. Three core watches were watched before the afternoon was rained out. The afternoon was spent organizing nest sheets, planning the rost of the week, and talking about the next 2 weeks without Emily. We took the egg (lof 2) at Emily's nest at CCLZ to put in the incubator. The nost is E-64 and the f is FWW A1#713. The 9 was incubating the rest and finshed when we approached. We brought the egg back in toilet paper inside a Ziploc baggy. It was raining and the egg felt cold when we arrived to the cabing. The water gauge had 0.7 cm of rain water in it. We dumped it to reset. UYL 24 May Today we anticipated rain and therefore planned Forgot to mention for a busy watch morning. Steve, Anny, & I all our egg in the incubator did 4-1 hour core watches in the morning. did 4-1 hour core watches in the morning and two additional in the afternoon. fissur samples of put in vile with All was successful without rain. We were all ethanol. tired afterward and did a group nest AN copulations today Search around OCV. Julian arrived from Panama City in the evening. JYL

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DuVal, E. H. 2005

Journal

Ish Boca Brava, David, Chiriqui, Panama.

25May Steve, Anne, 4 I all went to David to buy supplies.

We left before 9 pm to catch the Boca chica
Horconcitos bus. The bus never returned, but

fortunately we were able to get a ride from

Elvy Villatobos. This David trip was resonably

priced - No cost for transportation, except water taxi

for 3 people to B.C. &3, and \$1 back for me. I

was able to ride back to B.C. with Elvy in the

afternoon, while Anne and Steve Stayed in

David to Start their vacation. Groceries, copies,

and lunch totalled ~45°.

Spent the day doing playbacks and recording pairs.

I did five watches in total, nest searching (2 thew)

and nest checking. The & from E-164 was
incubating the lone egg, which is good news.

All of the quail eggs continue to be present
in our pilot nest experiment nests that are in

ACA. We plan to start the experiment on Sundayplacing eggs in the nests of 1/2 of all the
core sites, then the second half on Monday (5/30).

I paid Frank the bill tonight. It was \$215.25

which included I week X & people. Julian paid his
Share which was \$31.00 for food & lodging. JYL

Du Val, Journal E.H. 2005 Isla Boca Brava, Choriqui, Panamá 27 May Another long day in the field for Inlian and I. I managed to fit in le watches at core Sites before rain started at 4 pm. Julian recorded birds and did observations at 4 core sites. I checked E-61 nest and anticipated an empty nest but found a fat, lone chick in need of blood sample and banding. Will do that tomorrow. ITL 28 May Another humid, overcast day in the field. Julian Watched 3 core sites and continued recording. I did 5 core sites, Quail eggs in pilot nests are still present but are growing mold. The nest experiment Starts tomarrow. Low temp was 74°F + high was 85°F, Julian saw a ruddy-breasted Seedeater todayfirst one for the species list. JYL. A very trying day in the field today. Like Emily 29 May Says, "tourist-perfect Weather- blue sky, warm, breezy. I Started the morning by bleeding/partia banding the ehick in nest E-61. All well, good Sample. Efter a watch at SBE 2 I went to SIN3 to band/bleed the chicks from 5-14. When I arrived, the smaller chick was obviously not looking good. His right eye was entirely Swollen, yéllowish skin color and Seeping some kind of puss from where the lid was

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DuVal, Journal E.H. 2005 29 May Tsla Boca Brava, Chiniqui, Panama Closed. His head looked very big from the swelling that it was hard to tell that he was the smaller chick. I took out the bigger thich first and banded him FVB A1# 778 and got a great blood sample without any problems. I returned FVB to the nest and pulked out the Smaller chick. Banding was a little more difficult Since his legs were shorter. All bands fit perfectly and he was banded YRF AL#771. I was able to get a nice blood sample from this chick as well, however he would not stop breeding! I applied cotton balls and pressure. While we were waiting for the blood to stop- he spit up a seed. His breathing became progressively more labored and eventually started becoming weaker & weaker, gasping for air. He died in my hand. It was such a horrible ordeal, enough to really make me reconsider this field. I don't believe that my blood draw was different from the other two chicks this same day. I believe that this chick's health was already compromised Some how that the excess loss of blood was way too much. I brought him back to the cabina after my 2 (painful) watches. I preserved him in ethanol with a label. I checked the other chick 2x more

DuVal, Journal E. H. Isla Boca Brava, Chiriqui, Panama 2005 29 May later in the day - he was full and sleeping Unlian and I placed quail eggs in nests of half of the sites picked. The eggs were bought more than a week ago and were Obviously moldy, & smelly. With all the distractions of the chick tragedy, I forgot to wash the eggs beforehand and realized that when in mangrove. I washed the remainder of my eggs (enough for 2 mere sites) in the water near the BRI gully. I hope this doesn't bring in the wrong & Kind of predator to the nest, i.e. ants. We plan to wash and distribute the rest of the eggs tomorron. Temp bugh - 76°F tom high 86°F. Water gauge had 1.5cm of water since last time it was checked. I'L 30 May 05 After talking to EHD last night on the phone, We decided that the experimental nest project Should be postponed until we buy new, fresh eggs. Julian and I took out all the eggs we placed yesterday. We go to David in I week and will look for eggs then. Temp. today was low 76 Fhigh 88°F, no prescipitation in the rain gauge although it bruffy rained lust night.

Anne and Steve returned this evening.

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D. Val, Journal E. H. 2005 Isla Boca Brava, Chinqui, Panamai the day started out with heavy rainfall that 31 May had been going since 9 pm the night before. The morning consisted of data tasks - nest sheets, data entry, and organization of existing data to determine where future watches are needed. Anne compiled Display Perch information who that Speculates of B birds. This will be useful so we can concentrate watches at particular areas. After lunch we each did 2 watches of nest searched. Anne found 2 nests with eggs, one which will be problematic, since it is v13 high. We've had 6.2 cm of vain since last night. I checked 5-14 nest, and the remaining chick FVB has developed a yellow-filled blister on his (L) eye, similar to the one his sibling had. He couldn't open his eye. I will keep monitoring his condition. Ite should fledge 5000. After a fierce vain throughout the night the IJune 05 Morning was "tourist perfect", although bad manakin weather. Pretty quiet throughout the day. The most excitement of the day was Seeing a crocodile! during lunch. All four of us SAW it. The timing was good, since Inlian had

been swimming in the exact spot about 1/2 how prior! According to Julian, this was a 'small eroc', but a croc nevertheless. I imagine no one will be swimming anytime soon! Temp 75°F - 84°F, rain:

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Loomal

June I cont. 1.3 cm - since last night. S-14 chick's lye is

even worse - all swollen on left side of head. I took pictures with the video camera. Anne's nest that she found yesterday (A-7) has I chich and legg and the f is unbanded! The nest is so high that we are strategizing how to manage it. Jyl

2 June 05 The day was very quiet today for everyone. The weather seemed to be suitable for manahin displays, but who knows? Temp was 1000 75° F to high 84° F. Steve bled and banded fully the chill from E-61 - A1 780 FBP. All went will.

Boxer was a trooper today and worked all day.

3 June 05 Another quiet day in the field. Things definitely picked up in the afternoon. A lot of QRing. I saw BWG DM today (the ugly one). He sure looks strange. He was a great DM last year and used to hang around CCLS. He looks like someone put bleach on his blue back of on his head. I wonder what happened to him. He was hanging out at ACA 4 this evening. I didn't get a very good look. Temp 75°F-85°F. IYL

CB = TY Passerine = song birds or escenes? DM = FY Hj: Partners become motdred over time eek Trainer & McD didn't have multiple yes. Short-tern accommodation - consider post-DM age classes generalized Variance Which traits of song I whage - Keview results slide 1 Same as what McD bound Bar Long-trileds
good vandemization test - partners more matched than vandom partners. Active partner choice AI & frequency westering - Review lay-term devel part lay out predictors explicitly. the Wals coordinate Carepy vs. understang diff.
To of thre singis Matching during aggressive intractions

RC = SY

Devel of coord. Singing - Julianis talk

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DuVal, E.H.

Journal

2005

Isla Boca Brava, Chinqui, Panama 4 June 05 Activity level was somewhat high this am but tapered off throughout the day. Anne saw unb DM at BMB and I saw two down the Hel gully. We are going to net for Anne's nest tomaran. We are going to use stacked beer crates to reach the nest. Emily's chick (now only 1) hatched in Welt. We have to stake that nest since we ion: Know the f. Temp today 76°F-84°F. The afternoonisending in rain. JYL

5 June 05 A very busy day for everyone. We set up 2 nets thus morning at A-7 nest to catch the unbg. Steve was in charge and was successful in catching her. He banded her PFA A1# 781. Steve and Anne bled the chicks. The I was seen again on the nest-so she did abandon. We should Stake her nest again to confirm She is the one. I staked the nest in Wel 4 2X with am luck. Anne Staked it as well and is yet to return. It rained hard last night - 6 cm, temp 75F-86'F. The keetle broke this am so we ate crachers and pb.

I'm unsure what torrows breakfast will bring.

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E. H. 2005

June 4,2005 Isla Boca Brava, Shirizvi, Panama'
Today was busy staking nests. Steve was successful
in Seeing PFA at A. I nest that was caught yesterday
at the nest. She didn't abandon the nest. Anne and
I both tried to see the well of fat were unsuccessful.
My J-1 nest had 2 chicks and I staked it and
Saw RW-(g). Emily had a nest there already this
year which was RWY's nest. We'll try again tomorrow.

Presc Precipitation was I cm and temp 75°F-95°F.
JYL

June 7 The day Starked with rain until v 10 am. Anne did data entry until lunch while Steve & I Staked nests.

Steve Saw RW_g at J-1 but saw Rwy in area.

After lunch we all staked again until the rain started. Anne was successful with well 4 nest & I saw YV_(g) down the gully on J-2 nest. We are planning our DAVID trip tomorrow. JYL

June 8 To David for supplies. Bought another

Keetle Since ours broke. Tried to get Anne

d Steve's visas extended but the regulations

have changed and it is not possible to do

in one day. After talking to EHD we

decided to not renew them and will

pay any fines if necessary. JYL

Duval, Journal E.H. Isla Boca Brava, Chirique, Panamá
DAY OFF 2005 June 9, 2009 June 10,2005 off and on rain all day. Julian was able to Squeeze all his playbacks in today and did an extra one as he is one day behind. Steve staked J-1 and got the f RWY (g) and Anne bled/banded chicks. I got YAA (g) at J-2 and bled her chick. We Started the experimental nest project today. The eggs were all washed yesterday and placed in nests today with gloves so no smell would be on them. Eight sites were done to day t the 7 other will be for tomorrow. About le nests had to have some sewing adjustments. Temp 74-85°F. JYL Rain in the late morning, not too heavy. (10:30-11:00)
We all did watches in the morning. While at

FDM I some of the morning. June 2005 EDM, I saw one of the two banded Black. hooded Antshrike females (B/B). She perched high over EDMS for a long time, and foraged high in the trees. At least one of them didn't tear their bands off! In the afterwoonen, Store and I set four nets in the BTE/GULY grea and netted until 5:30 bot caught nothing. Anne + Julie put quail eggs in the experimental nests in the last 7 lines of nests. Julian did playbacks.

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DoVal, Journal E.H. 2005 Isla Boca Brava, Chinizui, Panamá June 13 EHD and JK left for Boquete for a few days before JK leaves for the States. Yesterday EHD netted at BTE and had some wexpected issues with bally? caught birds or at least previously injured birds and then stressed by being caught in mistnet. At almost 7pm last night chicks from J. I nest (4 Rwy) were still hungm. I was caught in net and had lacerations on face and leg, cause unknown. Today We confirmed that she did indeed abandon nest. After feeling chicks at nest all morning, we then took the larger chick to nest at We14 (E-63) to see if I would foster. The other chick we brought to the cabin. AgA indeed did adopt pechick with no problems. Anne saw Rwy(g) in the pm at DPO and appeared to have a hurt (broken?) leg. JYL June 14 AgA is still taking care of chick in nest (E-43). Our baby in the cabin 15 eating/defecating well. I collected some berries that I have seen adults enting, at a tree near the cross roads. It rained

June 14 AgA is still taking care of chick in nost (E-13).

Dur baby in the cabin 15 enting/defecating well.

I collected some berries that I have seen adults
enting, at a tree near the crossroads. It rained in the morning for 11/2 hours, and opp and min the pm. Steve did data entry in the am took care of the chick, while Anne took over this mad afternoon. Temp 74°F - 85°F.

Rain gauge checked of has 6.5 cm since last time checked (a few or more days). JYL

All experimental eggs still present.

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DuVal, Journal E.H. 2005 Isla Boca Brava, Chinqui, Panama A "towist-perfect" day today - sun, blue sky, slight June 15 breeze. Anne & Steve did watches in the morning and I entered data while feeding our healthy/happy chick. Steve took over in the pm and Anne & I continued watches. Temp 74°F-84°F; EHD returns this pm. IYL June 14 Temp 77°F-84°F; 3cm rain Since last night. Here took the day off, and Anne worked trip fell through when the tourists balked at the early-morning vain. The day trong out to be perfect, though. Julie + EAD wetted at BTE and GUL 4, hoping to catch the local males but having no luck. Anne did data entry in the moning and nortches in the afternoon. Activity on the Site has dropped DRAMATICALLY since I left fer Florida. Now one duetting bout is considered an exciting world. Jove 17 Julie, Anne, & Errily set nets near CCCI, FBR, and LHL - a fig area that can be controlly menitored. We caught three unbanded young wells (2CB's and one with a town, "spot" theat's probably a butch-gear male. Steve was sick, with a temperature of 106° so the Bolaños plans were scanned

DoVal, Journal E. H. 2005 Isla Boca Brava, Chiriqui, Panama We continued netting in the CCLI area and Still had no lock catching DMs. I got some response with planbacks of PF-1 vocalizations (local of fler in) and female dornwhistles (lots of down-whistling birds blew in), but the birds that responded flew high and avoided the nets. the CB's that we're catching now are well into the yearly not with ~ 1/2 of primaries replaced. We opened nets for that an horn in the oftenoon after doing some watches, and caught 4 birds in short order. This was the most successful netting day we've had in a while. The weather has been classically "rain season" - sonny during the day and raining for west of the night. Stere stayed home to enter data of babysit the J-1 chick ("Jesa") who is growing well. She's preening actively & Stretching often. Steve is still sick, but better them yesterday. Jone 19 Today was the last acting day 78-85°F for a while at CCLI/LHL. We only netted for the woming, and had little lock. In the oftenson, we all did watches.

Dolal, Journal E.H. 2005 Isla Boca Brava, Chiriqui, Pangura 4 Jone cont. I jutended to come home early after just one watch to review the date and see where we stand with knowing or 1/3 status around the site. Instead, I staked hest S-15 (that mobbin hatched today) and suw FGalG (6) for It seems that she was bunded with thes. aluminum over her last color band, making her bands look like FGB. Whoops! Seeing the final "G" makes it all clear, but we need to change her bands. I also found a nest with two LARGE Chicks so large that I was afraid they'd fledge while I was doing a thour watch at MAN. They didn't, and I banded x bled them while WBW (G) surprisingly busy - this is the only site that seems active right now! (though I did bear QK between the MANY HEL gullies). The wales did nonstop duets Separated by "searching" PF-1 or PF-2.
There were at least 3DM's in the area. The others had slow watches, as in other recent days. Nevertheless, my afternoon gave me renewed hope for



D. Val, Journal E.H. 2005 Isla Boca Brava, Chiriqui, Panama. There was an incredible Storm last night - we were all soaked, as were our beds + all our things. The lightning was extremely close & the winds were reminiscent of a humicane. I stayed en casa in the marriy to review and organize the data, while babysitting the chick Her weight did ust increase from yesterday aroming (13.0g) so I'm trying to up her intake of prepared baby food ("TIC" brand from the Melo pet store in David - we're ant of "Exaci"). Vesterday she largely ate the red bernies that seem to be the main Manakin Good vight now DATA REVIEW (non-core sixes): Site #1-hr watches done & BUR --R
BUB 8 PROPRAY
CAS WGG BWP VGG BWP RYY? WBR? BYW YPB DPO 7 5 + 10+3 × ADP ed her FBR PGY 7 7 FEN 5 10t3 U45 GUL1 GUL1

		k

DoVal Journal E.H. 2005 Tela Boca Brava, Chiriqui, Panam # 1-hr watches 20 June cont. site 9 HEL WYW lots unb HOC + Julian × LED CYR? un6 BM LOT YRS 7 ?? 16 OCV GRY YP4 10 ?!? PHTI GBY PHTZ 20 PUP VBV? AYS 13 GPY/WBG SBE 3 RRA? 8 GWW SLP YUV? 13 VYG GAV Wel 1 BAY RGG ??? Wel 2 8 MAN 12 APY/ARY/W SPY

Things Anne does | did "specially": ① At the beginning I called QR a "CR"

② "

I called a CR "

" = 1.1" I called a CB a "CM" 3) My first watches at BTE (all the ones in March) were at THK rather than BTE3 - after that all watches at BTE3 unless written DAT the beginning I approximated some QR + Salir numbers when I lost exact count and - these numbers are written with "n" in tront and are usually w/in ± 10% I would guess 5) Later on I approximated QR's + Salirs by counting a subsample of I min (or usually more) - made a note of this by writting the number with a '* and making a note (ie. 15*) Then I finally got good at counting in my head, and then they stopped QR-ing. Sigh. 6) My directions were a bit mixed up for the first month or so - especially out in the BRI/ MAN area (thought North was west, etc.)

> Emily H. DuVal Emuly H DuVal



- How to interpret Staves consequences
- O Always quistion my book syntimes II.
 mistorik RYV for RYB and GAWas GBW.
- Decree ministered or missing constitutes (early on) I
 - Estage in the second of many seconds.

 Sometimes I just now had harman michaely when he was a second of the second

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